



MINNESOTA STATE
BOARD OF INVESTMENT

ANNUAL REPORT

Fiscal Year Ending June 30, 2024

2024



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Message from Executive Director and Chief Investment Officer

December 2024

The Minnesota State Board of Investment (SBI) is pleased to present its Annual Report for the fiscal year ending June 30, 2024 (FY24). The primary purpose of this report is to communicate the investment goals, policies, and performance of each fund managed by the SBI.

About the SBI

As of June 30, 2024, the SBI's assets under management totaled \$146.2 billion. The SBI is dedicated to delivering exceptional risk-adjusted returns and operational excellence to its stakeholders. Our primary mission is to help ensure the retirement security of Minnesota's public employees through the investment of the assets of the statewide public retirement systems (Combined Funds). We also provide investment services to other SBI stakeholders in tax-advantaged savings, non-retirement, and state cash accounts.

Market Review / Macro Perspective

Financial markets posted strong performance over the course of FY24, aided by robust global economic growth and a gradual decline in the rate of inflation. While still elevated, improvement in the inflation outlook allowed the U.S. Federal Reserve (Fed) to pause its aggressive policy tightening regime early in the fiscal year and remain "on hold" for most of FY24. The prospect of a Fed pivot to easier monetary policy combined with resilient economic growth – especially in the U.S. – provided a favorable backdrop for equity markets.

The broad U.S. equity market, as measured by the Russell 3000 Index, rose +23.1% in FY24, led by gains in large cap technology and consumer discretionary shares. Non-U.S. equities lagged U.S. equities, and the MSCI All Country World Ex U.S. Index rose +11.6%. Global fixed income market performance was mixed. Government bond yields rose as faster economic growth and above-target inflation in the U.S. and elsewhere narrowed the scope for central bank policy cuts. On the positive side, credit-sensitive fixed income sectors, such as corporate bonds, rallied as the economic outlook remained robust. The Bloomberg U.S. Aggregate Bond Index rose +2.6% over the fiscal year.

Combined Funds Results for Fiscal Year 2024

As of June 30, 2024, the Combined Funds assets totaled \$93.6 billion. The Combined Funds returned +12.3% (net of investment management fees) in FY24 and generated an annualized return of +8.3% over the trailing 10-year period (net of investment management fees). The Combined Funds investment results are provided in the Investment Programs section of this report starting on page 17.

It is an honor to lead the SBI team in service of such an important mission. Our team is moving with a sense of purpose, will remain singularly focused on our mission, and will continue to build upon the strong foundation that has made the SBI one of the top-performing public retirement systems in the nation. Thank you to our stakeholders for your continued trust and support.

Sincerely,



Jill E. Schurtz
Executive Director and Chief Investment Officer
Minnesota State Board of Investment

State Board of Investment – Governance

Board Members

The Minnesota State Board of Investment (SBI) serves the state of Minnesota by investing the assets of state public employee benefit plans as well as various tax-advantaged savings plans, non-retirement accounts, and state cash accounts. Established in 1885 by [Article XI, Section 8](#) of the Minnesota Constitution, the Board is composed of the Governor, the State Auditor, the Secretary of State, and the Attorney General. The primary responsibility of the Board is to monitor and evaluate the investment programs as a fiduciary with the goal of making sound investment decisions. The Board delegates responsibility through the retention of the Executive Director, staff, consultants, investment professionals, and with the advice of various committees.



Governor
Tim Walz, Chair



State Auditor
Julie Blaha



Secretary of State
Steve Simon



State Attorney General
Keith Ellison



Executive Director

The Minnesota State Board of Investment retains the Executive Director who is responsible for implementing, administering, and reviewing the investment policies established by the Board. The Executive Director employs investment and administrative staff to assist in meeting the Board's objectives. A listing of the SBI staff is provided on page 10.

Jill E. Schurtz

Investment Advisory Council

The Minnesota Legislature ([Minnesota Statutes, Section 11A.08](#)) has established a seventeen-member Investment Advisory Council (IAC) to advise the Board and its staff on investment-related matters. All proposed investment policies are reviewed by the IAC before they are presented to the Board for action. A listing of the IAC members is provided on page 9.

Consultants

The SBI retains consultants to assist the Board and Executive Director in the ongoing development and evaluation of its investment programs.

General Consultants

Aon Investments
Meketa Investment Group

Private Markets Consultant

Albourne Partners

Custodial Banks

The Board retains two custodian banks: one for retirement and trust funds, and the other for state cash accounts.

Retirement and Trust Funds

State Street Corporation

State Cash Accounts

Principal Bank

External Investment Managers

The majority of the SBI's assets are managed externally by professional investment managers. Information is provided in the respective areas of the Annual Report for each of the investment managers retained by the SBI.

State Board of Investment – Governance

Investment Advisory Council

The IAC fulfills its statutory duty to the SBI by providing advice and independent review of the investment policy and implementation recommendations that guide the SBI’s investments.

Public Members

The Board appoints ten members from the public who are experienced in finance and investment. These members traditionally have come from the Minneapolis and St. Paul investment community.

<i>Gary Martin, Chair</i> Chief Investment Officer, Macalester College	<i>Kim Faust, Vice Chair</i> Vice President and Treasurer, Fairview Health Services	<i>Amy Jensen</i> Chief Investment Officer, Lansing Group LLC	<i>Dan McConnell</i> President, Minnesota Building and Construction Trades Council
<i>Nancy Orr</i> Vice President – Investments and Chief Investment Officer, Charles Stewart Mott Foundation	<i>Carol Peterfeso</i> Managing Director of Investments, Bush Foundation	<i>Dennis Santos</i> Senior Vice President and Chief Investment Officer, Okabena Investment Services	<i>Sunil Swami</i> Chief Investment Officer, Alerus
<i>Jen Wilson</i> Senior Managing Director – Private Equity, Thrivent	<i>Shawn Wischmeier</i> Chief Investment Officer, Margaret A. Cargill Philanthropies		

Permanent Members

The Commissioner of Minnesota Management and Budget and the Executive Directors of the three statewide retirement systems are permanent members of the IAC.

<i>Erin Campbell</i> Commissioner, Minnesota Management and Budget (MMB)	<i>Erin Leonard</i> Executive Director, Minnesota State Retirement System	<i>Doug Anderson</i> Executive Director, Public Employees Retirement Association	<i>Jay Stoffel</i> Executive Director, Teachers Retirement Association
<i>Jennifer Hassemer</i> MMB Commissioner’s Designee Assistant Commissioner, Debt Management and Internal Controls			

Employee and Retirement Representatives

The Governor appoints two active employee representatives and one retiree representative to the IAC.

<i>Denise Anderson</i> Governor’s Appointee Active Employee Representative	<i>Peggy Ingison</i> Governor’s Appointee Retiree Member Representative	<i>Constance Ify Onyiah</i> Governor’s Appointee Active Employee Representative
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State Board of Investment – Governance

SBI Staff

SBI staff recommends strategic planning alternatives to the Board and the IAC and executes the Board’s asset allocation decisions.

Executive Leadership

<i>Jill E. Schurtz</i> Executive Director and Chief Investment Officer	<i>Andy Christensen</i> Deputy Executive Director	<i>Erol Sonderegger</i> Deputy Chief Investment Officer	<i>Andrew Krech</i> Managing Director, Private Markets and Active Equities
<i>Charlene Olson</i> Executive Assistant and Head of Office Services			

Directors

<i>Patricia Ammann</i> Director, Participant Directed and Non- Retirement Investments	<i>Paul T. Anderson</i> Director, Financial Services and Operations	<i>Cassie Boll</i> Co-Director, Private Markets	<i>John Mulé</i> General Counsel	<i>Jonathan Stacy</i> Co-Director, Private Markets
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Investment Staff

<i>Grace Aas</i> Investment Analyst, Private Markets	<i>Hamze Aden</i> Investment Analyst, Performance Analytics	<i>Amanda Allen</i> Investment Analyst, Participant Directed and Non-Retirement Investments	<i>Nathan Blumenshine</i> Vice President, Director of Stewardship
<i>Sara Bruggeman</i> Investment Officer, Legal and Policy Services	<i>Tammy Brusehaver</i> Investment Officer, Investment Operations	<i>Dan Covich</i> Vice President, Director of Risk Management	<i>Aaron D. Griga</i> Vice President, Director of Fixed Income
<i>Preston Guttenberg</i> Investment Analyst, Active Equities	<i>Ben Harris</i> Investment Analyst, Active Equities	<i>Tim Johnson</i> Investment Officer, Cash Management	<i>Steven P. Kuettel</i> Investment Officer, Cash Management
<i>Hannah Lundquist</i> Investment Analyst, Stewardship	<i>Akhil Madurai</i> Investment Analyst, Cash Management	<i>Irene Murphree</i> Investment Analyst, Fixed Income	<i>Mercy Ndungu</i> Vice President, Private Markets
<i>Rachel Pastick-Malm</i> Investment Analyst, Project Management	<i>S. Emily Pechacek</i> Vice President, Director of Active Equities	<i>Narmada Ramaswami</i> Investment Analyst, Fixed Income	<i>Cal Redemske</i> Senior Investment Analyst, Private Markets
<i>Iryna Shafir</i> Investment Compliance Specialist, Investment Operations	<i>J. Adam Sorenson</i> Investment Analyst, Legal and Policy Services	<i>Ryan Tucker</i> Senior Investment Analyst, Participant Directed and Non-Retirement Investments	<i>David Velasquez</i> Senior Investment Officer, Performance Analytics
<i>Jeffrey Weber</i> Senior Investment Officer, Private Markets	<i>Alex Wolsky</i> Investment Analyst, Stewardship	<i>Samir Zahar</i> Investment Officer, Private Markets	

Financial Services Staff

<i>Kailee Anderson</i> Investment Analyst, Investment Operations	<i>Shirley Baribeau</i> Controller	<i>Stephanie Bui</i> Account Clerk, Senior	<i>Gina LeBrun</i> Accounting Officer, Senior	<i>Daniil Vasilyev</i> Investment Analyst, Investment Operations
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Information Technology Staff

Todd Lauf
Information Technology
Manager

Office Services Staff

Melissa Mader
Office Administrative
Specialist, Senior

Kelly Nordstrom
Office Administrative
Specialist, Intermediate

As of June 30, 2024

Established

The Minnesota State Board of Investment was established in 1885 by [Article XI, Section 8](#) of the Minnesota Constitution to administer and direct the investment of all state funds. As specified in the Constitution, its membership is comprised of the Governor, State Auditor, Secretary of State, and Attorney General.

Statutory Authority

All investments undertaken by the SBI are governed by the prudent person rule and other standards codified in Minnesota Statutes, [Chapter 11A](#) and [Chapter 356A](#).

Prudent Person Rule

The prudent person rule, as codified in [Minnesota Statutes, Section 11A.09](#), requires all members of the Board, Investment Advisory Council, and SBI staff to “...act in good faith and ...exercise that degree of judgment and care, under circumstances then prevailing, which persons of prudence, discretion, and intelligence exercise in the management of their own affairs, not for speculation, but for investment, considering the probable safety of their capital as well as the probable income to be derived therefrom.” [Minnesota Statutes, Section 356A.04](#) contains a similar codification of the prudent person rule applicable to the investment of assets for pension funds and other savings plans.

Authorized Investments

In addition to the prudent person rule, [Minnesota Statutes, Section 11A.24](#) contains a specific list of asset classes available for investment including common stocks, bonds, short-term securities, real estate, private equity, private debt, and resource funds. The section prescribes the maximum percentage of fund assets that may be invested in various asset classes and contains specific restrictions to ensure the quality of the investments.

Investment Policies

Within the requirements defined by state law, the SBI, in conjunction with its staff and the IAC, establishes investment policies for all funds under its control. These policies are tailored to each fund's particular needs and specify investment objectives, risk tolerance, asset allocation, investment management structure, and respective performance standards.

The Board, its staff, and the IAC have conducted detailed analyses that address the investment objectives, asset allocation policy, and management structure of each of the funds under the SBI's control. The policies guide the ongoing management of these funds and are updated periodically.

Investment Beliefs

The SBI initially adopted a set of Investment Beliefs in 2017 and updated them in 2022 and 2024. The Investment Beliefs help provide context for SBI's actions, reflect SBI's investment values, and acknowledge SBI's role in supporting the State's retirement systems. The SBI also uses these Beliefs as a guide when investing the assets of the other investment programs it manages, as deemed appropriate.

The Investment Beliefs are available on the SBI's website and are provided on page 13 of this report.

State Board of Investment – Governance

Fiscal Year 2024 Board Activity

During the course of a year, members of the Board undertake numerous activities in their oversight of the SBI.

Examples of Board activities during fiscal year 2024 include:

- Authorized the Executive Director, in conjunction with Office of Higher Education (OHE), to negotiate the contract to hire TIAA-CREF Tuition Financing Inc. (TFI) as the Plan Manager for the Minnesota College Savings Plan.
- Authorized the transition of the Dodge & Cox Income Fund investment option for the Tax-Advantaged Savings Plans, as appropriate, to a dedicated separately managed account.
- Approved the addition of a new investment belief to the SBI’s Statement of Investment Beliefs.
- Published the SBI’s Climate Roadmap.
- Approved the reappointment of four IAC members and appointed one new member to the IAC.
- Authorized the Executive Director to negotiate commitments to 16 private market investment deals, totaling up to \$2.6 billion.
- Authorized the Executive Director to serve as the Chair of the Secure Choice Board.

FY24 Legislative Update

During the 2024 legislative session the SBI monitored legislative activity that had the potential to impact the SBI. Outlined below is a brief summary of applicable legislation that was passed by the Minnesota Legislature and signed into law:

- The 2024 pension bill made several benefit and administrative changes to the three statewide pension systems. The bill also provided one time funding for the Teachers Retirement Association and St. Paul Teachers Retirement Fund. Notably, the bill added additional qualifying workers to the Secure Choice Retirement Program, for which the SBI provides investment management services. (Session Law Ch. 102)
- The legislature created a Permanent School Fund Task Force to review the administration and distribution rules related to the Permanent School Fund. The SBI Executive Director must appoint an SBI staff member to serve on the task force. The task force must file a report with the legislature containing recommendations for amendments to Minnesota statutes or the Minnesota Constitution on changes to the distribution formula for the fund. Currently, the Minnesota Constitution limits distributions from the fund to dividend and interest income. Capital gains may not be distributed. The bill requires that the task force file the report by January 15, 2026. (Session Law Ch. 115)
- The legislature created an account with the SBI through which the Commissioner of Natural Resources is authorized to deposit and invest financial assurance funds received from private entities that lease mineral rights from the state. The account is a separate account with SBI and the SBI staff will invest the assets of the account based on an appropriate asset allocation. (Session Law Ch. 116)
- The legislature also created an account at the SBI for gifts, grants, and contributions accepted by Direct Care and Treatment and not needed for current agency needs. The SBI will invest the assets of the account based on an appropriate asset allocation. (Session Law Ch. 127)

STATEMENT OF INVESTMENT BELIEFS

In September 2017, the Minnesota State Board of Investment (SBI) adopted a set of Investment Beliefs (updated in May 2022 and May 2024). The Beliefs help provide context for the SBI's actions, reflect the SBI's investment values, and acknowledge the SBI's role in supporting the three statewide retirement systems. Where appropriate, the SBI also uses these Beliefs as a guide when investing the assets of the other investment programs.

The SBI is a long-term investor whose primary mission is to maintain the viability of the retirement systems it supports.

When determining an appropriate level of risk that the systems' assets should bear the SBI must reflect the nature of those systems' liabilities and funding policy.

As long-term institutional investors, our fiduciary duty requires us to consider all material risks and opportunities.

The SBI's strategic allocation policy is the primary determinant of (i) the asset portfolio's long-term investment return and (ii) asset portfolio's risk.

While the SBI can sacrifice some short-term liquidity to pursue a greater long-term return, the investment portfolio's net cash flows and ability to pay benefits on a year-by-year basis are key risk considerations.

Diversification improves the risk-adjusted return profile of the SBI investment portfolio.

Diversification of the SBI investment portfolio takes place across several critical dimensions, such as allocation across global regions and country markets (e.g., U.S. versus Europe, Asia, emerging markets, etc.), allocation among different types of assets (equities, bonds, real estate, etc.), across various sectors and industries (e.g., technology, financials, consumer-oriented, etc.), and weighting of different risk factor premiums (e.g., value vs. growth, small companies vs. big companies, carry, illiquidity, etc.). If the correlation (i.e., relationship) among the returns generated by these factors is less than perfect (i.e., less than 1.0), then diversification is beneficial.

There are long-term benefits to SBI managing investment costs.

The equity risk premium is significantly positive over a long-term investment horizon although it can vary over time.

The equity risk premium is also pervasive across several asset classes and its overall exposure should be managed accordingly.

Private market investments have an illiquidity premium that the SBI can capture.

This risk premium can increase the portfolio's long-term compound return and help diversify the portfolio's risk.

Investment Beliefs

It is extremely challenging for a large institutional investor to add significant value over market-representative benchmarks, particularly in the highly competitive public global equity markets.

Passive management should be utilized when there is low confidence that active management can add value. Active management can have potential to add value where information processing is difficult and challenging, allowing for market inefficiencies that are potentially exploitable.

The SBI benefits significantly when roles and levels of authority are clearly defined and followed.

The role of the members of the State Board of Investment (Board) is to establish investment policies that are in compliance with state statute and guide the ongoing management of the funds. The Board delegates implementation of that policy to the Executive Director/CIO, and exercises oversight with respect to the Executive Director/CIO's implementation activities and the portfolio's active risk level in the context of the portfolio's strategic allocation policy. The Board also ensures adequate resources are available to the SBI staff to perform their work;

The Investment Advisory Council (IAC)'s key role is advising the Board and Executive Director/CIO on general policy matters and methods to enhance the management of the investment portfolio;

The Executive Director's/CIO's key role is implementing SBI investment policies and setting the portfolio's active risk level in a prudent manner to equal or exceed applicable policy benchmarks.

Utilizing engagement initiatives to address environmental, social, and governance-related (ESG) issues can lead to positive portfolio and governance outcomes.

In addition to specific engagement strategies the SBI might apply, proxy rights attached to shareholder interests in public companies are also "plan assets" of the SBI and represent a key mechanism for expressing SBI's positions relating to specific ESG issues. By taking a leadership role in promoting responsible corporate governance through the proxy voting process, SBI can contribute significantly to implementing ESG best practices which should, in turn, add long-term value to SBI's investments.

Best practices are developed by the best teams.

There is no merit-based explanation for the lack of racial and gender diversity in the investment industry. In fact, research indicates that such diversity adds value. The SBI must ensure that non-financial biases do not prevent it from working with the best teams. In this diverse and changing world, organizations that demonstrate a commitment to diversity are more likely to succeed.

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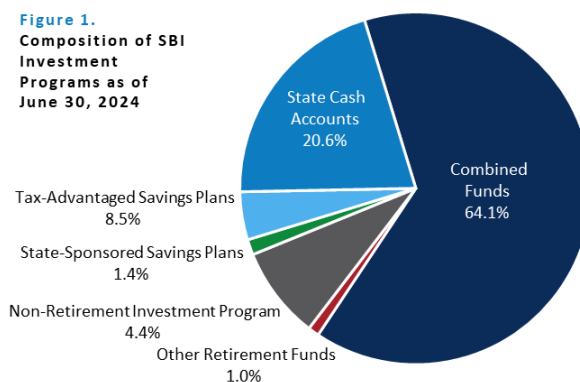
State Board of Investment Investment Programs

SBI Investment Programs

As of June 30, 2024, the SBI managed \$146.2 billion in total assets across various investment programs including state public pension plans, other retirement plans, tax-advantaged savings plans, state-sponsored savings plans, non-retirement accounts, and state cash accounts. The SBI structures each program according to its unique requirements, allowing for a comprehensive set of investment solutions to aid participating plans and agencies in achieving their goals. The assets managed by the SBI and the participating plans of each investment program are provided below. A detailed description of each program is contained in subsequent sections of this report.

SBI Investment Programs	In Millions
Combined Funds	\$ 93,678.7
Other Retirement Funds	1,486.3
Tax-Advantaged Savings Plans	12,393.3
State-Sponsored Savings Plans	2,069.2
Non-Retirement Investment Program	6,435.6
State Cash Accounts	30,093.2
Total Funds Under Management	\$ 146,156.3

Figure 1.
Composition of SBI Investment Programs as of June 30, 2024

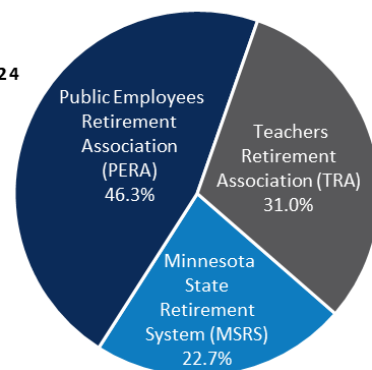


Combined Funds

The SBI's **Combined Funds** are comprised of the defined benefit pension assets of the three Statewide Retirement Systems.

Combined Funds	In Millions
Minnesota State Retirement System (MSRS)	\$ 21,230.1
Public Employees Retirement Association (PERA)	43,377.5
Teachers Retirement Association (TRA)	29,071.1
Total Combined Funds	\$ 93,678.7

Figure 2.
Composition of Combined Funds as of June 30, 2024

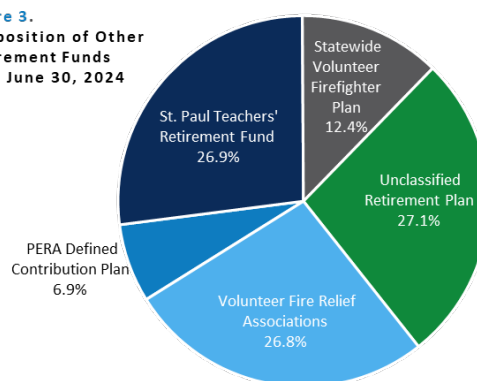


Other Retirement Funds

The SBI provides investment solutions for participating **Other Retirement Funds**.

Other Retirement Funds	In Millions
PERA Defined Contribution Plan	\$ 102.0
St. Paul Teachers' Retirement Fund	400.4
Statewide Volunteer Firefighter Plan	183.9
Unclassified Retirement Plan	402.1
Volunteer Fire Relief Associations	397.9
Total Other Retirement Funds	\$ 1,486.3

Figure 3.
Composition of Other Retirement Funds as of June 30, 2024



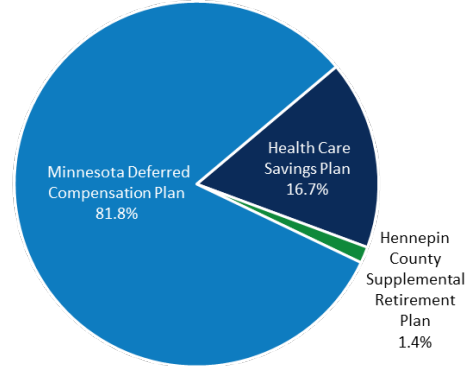
State Board of Investment Investment Programs

Tax-Advantaged Savings Plans

The SBI provides investment options to various **Tax-Advantaged Savings Plans** in accordance with their unique plan requirements.

Tax-Advantaged Savings Plans	In Millions
Health Care Savings Plan	\$ 2,075.5
Hennepin County Supplemental Retirement Plan	179.1
Minnesota Deferred Compensation Plan	10,138.8
Total Tax-Advantaged Savings Plans	\$ 12,393.3

Figure 4.
Composition of Tax-Advantaged Savings Plans as of June 30, 2024

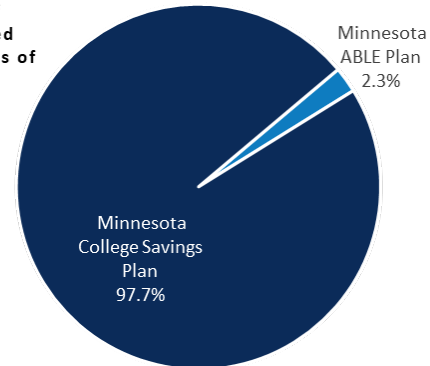


State-Sponsored Savings Plans

The SBI is responsible for oversight of the investment options in the **State-Sponsored Savings Plans**.

State-Sponsored Savings Plans	In Millions
Minnesota ABLE Plan	\$ 47.3
Minnesota College Savings Plan	2,021.9
Total State-Sponsored Savings Plans	\$ 2,069.2

Figure 5.
Composition of State-Sponsored Savings Plans as of June 30, 2024

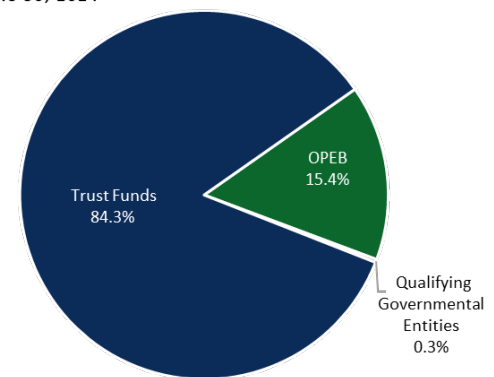


Non-Retirement Investment Program

The **Non-Retirement Investment Program** is comprised of authorized state and public sector entities for whom the SBI provides broad investment solutions.

Non-Retirement Investment Program	In Millions
Other Postemployment Benefits (OPEB)	\$ 992.0
Qualifying Governmental Entities	17.4
Trust Funds	5,426.1
Total Non-Retirement Investment Program	\$ 6,435.5

Figure 6.
Composition of Non-Retirement Investment Program as of June 30, 2024



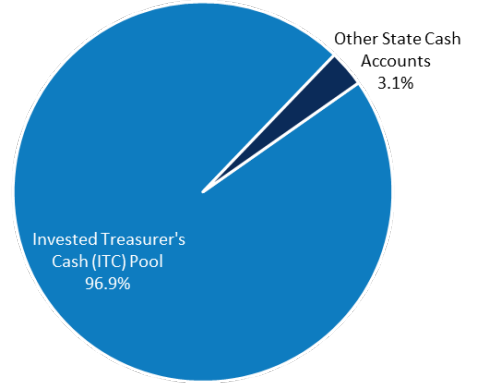
State Board of Investment Investment Programs

State Cash Accounts

The large majority of **State Cash Accounts** are invested in the Invested Treasurer’s Cash (ITC) Pool, with the remainder invested in Other State Cash Accounts. SBI staff internally manage these assets.

State Cash Accounts	In Millions
Invested Treasurer's Cash (ITC) Pool	\$ 29,160.6
Other State Cash Accounts	932.5
Total State Cash Accounts	\$ 30,093.2

Figure 7. Composition of State Cash Accounts as of June 30, 2024



State Board of Investment Funds Under Management

Funds Under Management

The SBI's total assets are listed below in Figure 8. With the exception of state cash accounts, the majority of these assets are externally managed by institutional investment managers in separately managed accounts. These managers are required to adhere to the investment guidelines established for each portfolio.

Figure 8: Market Values as of June 30, 2024

Total Assets Invested by the SBI ¹																																															
\$146.2 billion																																															
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¹Totals may not add due to rounding.

²Includes Excess Debt Service and Minnesota Housing Finance Agency assets.

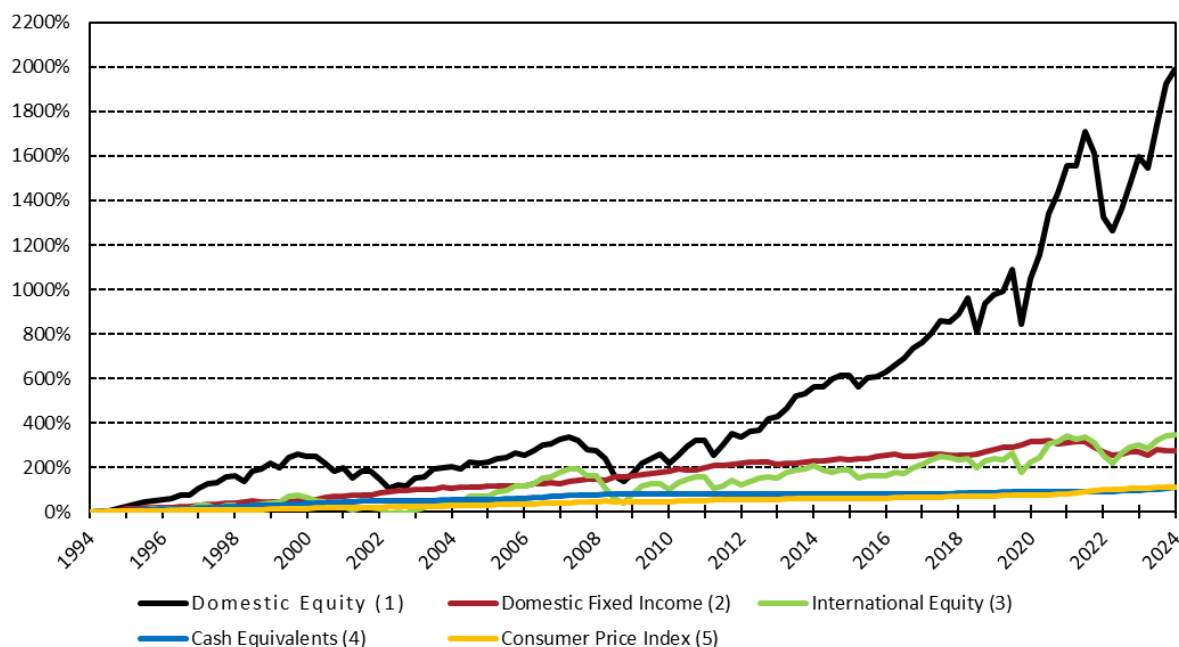
Investment Environment

Capital Markets

Figure 9.

PERFORMANCE OF CAPITAL MARKETS

Performance (%) as of June 30



The International Equity cumulative performance on the graph represents: MSCI ACWI ex U.S. (net) since 01/01/1999; and MSCI ACWI Free ex U.S. (net) from 01/01/1994 – 12/31/1998.

PERFORMANCE OF BENCHMARKS

Performance (%) as of June 30, 2024

	Annualized Performance					
	1 Year	3 Year	5 Year	10 Year	20 Year	30 Year
Domestic Equity						
(1) Russell 3000	23.1	8.1	14.1	12.1	10.2	10.7
Russell 1000: <i>Large Cap Stocks</i>	23.9	8.7	14.6	12.5	10.3	10.8
Russell 2000: <i>Small Cap Stocks</i>	10.1	-2.6	6.9	7.0	7.9	8.9
Domestic Fixed Income						
(2) Bloomberg U.S. Aggregate	2.6	-3.0	-0.2	1.4	3.1	4.5
Bloomberg 5+ Year U.S. Treasury	-1.7	-6.6	-2.3	0.8	3.4	NA
International Equity						
(3) MSCI ACWI ex U.S. (net): <i>Developed & Emerging</i>	11.6	0.5	5.5	3.8	5.8	NA
MSCI World ex U.S. (net): <i>Developed</i>	11.2	2.8	6.6	4.3	5.7	5.3
MSCI Emerging Markets Index	12.5	-5.1	3.1	2.8	7.3	5.2
Cash						
(4) ICE BofA 3 Month U.S. Treasury Bill	5.4	3.0	2.2	1.5	1.6	2.5
Inflation Measure						
(5) Consumer Price Index CPI-U	3.0	5.0	4.2	2.8	2.6	2.5

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Combined Funds

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Asset Class Categories

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Combined Funds Investment Program Overview

Overview

The Combined Funds represent the assets of both active and retired public employees who participate in the defined benefit plans of three statewide retirement systems: Minnesota State Retirement System (MSRS), Public Employees Retirement Association (PERA), and Teachers Retirement Association (TRA). As of June 30, 2024, the total market value of the Combined Funds was \$93.7 billion.

Figure 10 provides the market value for each plan sponsor in the Combined Funds.

For investment purposes, the SBI aggregates the assets of the three statewide retirement systems in the Combined Funds to benefit from efficiencies of scale. To gain greater operating efficiency, external managers are grouped into several "investment pools" which are segregated by asset class. Ownership interest in the Combined Funds is represented by a participation interest in each pooled vehicle. This structure also supports the Supplemental Investment Fund (SIF) platform. Information regarding the SIF platform can be found on page 115. The Combined Funds and the SIF platform share many of the same investment pools, while some pools are exclusive to the Combined Funds.

Investment Objectives

One of the SBI's core responsibilities is to ensure sufficient funds are available for the three statewide retirement systems to pay benefits as promised.

Figure 10. Combined Funds Assets as of June 30, 2024

	Market Value (in Millions)
Statewide Retirement System Funds	
State Employees Retirement Fund	\$ 18,097.0
Correctional Employees Retirement Fund	1,789.0
State Patrol Retirement Fund	1,050.3
Judges Retirement Fund	293.7
Total MSRS Assets	\$ 21,230.1
General Employees Fund	30,123.3
Police and Fire Fund	12,045.5
Correctional Fund	1,208.7
Total PERA Assets	\$ 43,377.5
Teachers Retirement Association (TRA) Assets	\$ 29,071.1
Combined Funds Total	\$ 93,678.7

Actuarial Assumed Return

Employee and employer contribution rates are specified in state law as a percentage of an employee's salary. These rates are set so that contributions plus expected investment earnings will cover the projected cost of promised pension benefits. The actuarial assumed investment returns required to meet these projected pension costs are set by statute. The annual actuarial investment return assumption of 7.0% for the three Statewide Retirement Systems was approved by the legislature and signed into law in 2023.

Time Horizon

In general, pension assets accumulate in the Combined Funds for 30 plus years during an employee's years of active service. A typical retiree is expected to draw benefits for an additional 15 to 20 years. This provides the Combined Funds with a long investment time horizon and permits the SBI to take advantage of the long-term return opportunities offered by common stocks and other equity investments.

Asset Allocation

The allocation of assets among equities, fixed income, and private markets (private market investments include private equity, private credit, real estate, and real assets) has a significant impact on investment results. In fact, asset allocation decisions overwhelm the impact of individual security selection within a total portfolio.

Historical evidence indicates that public equities and private equities have provided the greatest opportunity to maximize investment returns over the long term. As a result, the SBI has chosen to incorporate a large commitment to these asset classes in the asset allocation policy for the retirement funds. To mitigate the short-term volatility of returns exhibited by common stocks, the SBI includes other asset classes such as fixed income (bonds), as well as diversifying private markets investments such as real estate, real assets, and private credit investments in the total portfolio. This diversification is intended to reduce fluctuations in investment returns on a year-to-year basis and enhance the Funds' ability to meet or exceed

Combined Funds Investment Program Overview

the actuarial return target over the long term.

Long-Term Allocation Policy

The Combined Funds have a policy asset allocation that is based on the investment objectives of the Combined Funds and the expected long-term performance of the capital markets. The SBI periodically reviews this policy allocation.

The following strategic asset allocation became effective July 1, 2020:

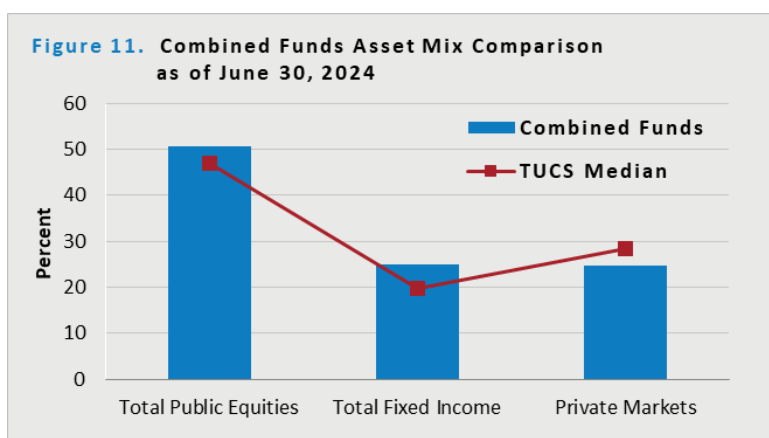
Public Equity	50%
Fixed Income	25
Private Markets	25
Total	100%

Strategic asset allocation changes listed in the Board's Resolution Concerning the Management of Combined Funds Asset Allocation and Liquidity can be found on the [SBI website](#).

Asset Mix Compared to Other Pension Funds

The SBI finds it instructive to review the asset mix and performance of the Combined Funds relative to other pension fund investors. The comparison universe used by the SBI is the Master Trust portion of the Trust Universe Comparison Service (TUCS). This universe contains information on public and corporate pension and trust funds with diversified asset mixes and more than \$20 billion in assets.

Comparisons of the Combined Funds' actual asset mix to the TUCS universe median allocation to stocks, bonds and private markets asset classes as of June 30, 2024, are displayed in Figure 11. On average, the Combined Funds asset mix relative to the TUCS median



Combined Funds Asset Allocation as of June 30, 2024			
Asset Group	Market Value (in Millions)	Actual Allocation	TUCS ¹ Median Allocation ²
Public Equity	\$47,340	50.5%	47.0%
Fixed Income	\$23,284	24.9%	19.8%
Private Markets	\$23,055	24.6%	28.3%
Total	\$93,679	100%	

¹TUCS may categorize assets differently than the SBI.
²Represents the median allocation by asset class, which will not add to 100%.

allocation had larger weights to public equity and fixed income (including cash), and a lower allocation to private markets. The historical allocation to underlying asset classes in the Combined Funds is displayed on the next page in Figure 12.

Total Return Vehicles

The SBI invests the majority of the Combined Funds' assets in **Public Equity** (domestic, international, and global). This allocation is consistent with the investment time horizon of the Combined Funds and the advantageous long-term risk-return characteristics of common equities. The inclusion of international equities in the asset mix is intended to diversify holdings across world markets, providing an opportunity for enhanced return and potential diversification benefits. The rationale underlying the inclusion of **Private Equity** is similar.

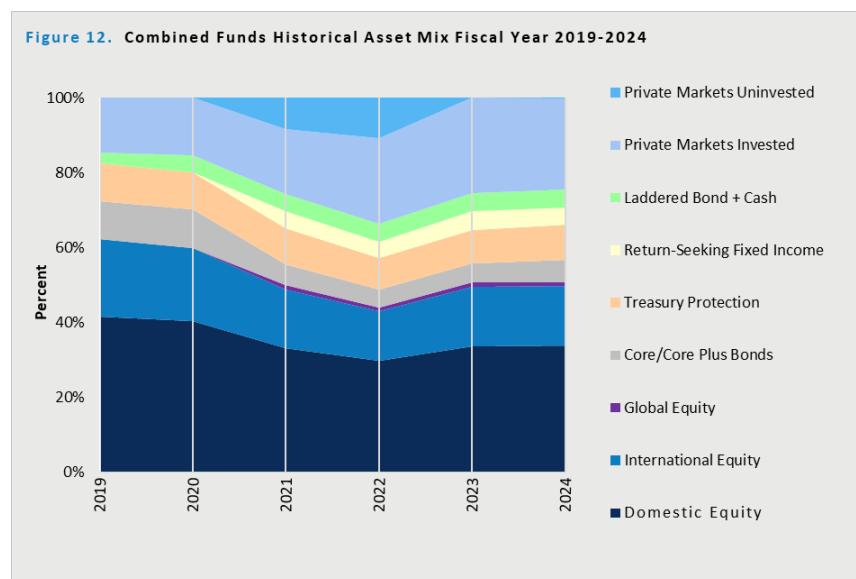
The SBI recognizes that this sizable policy allocation to public and private equity relative to fixed income investments will result in increased volatility of returns and may result in periods of short-term relative underperformance. Nevertheless, it is expected that future long-term returns for this type of policy will continue to compensate for the additional volatility.

Diversification Vehicles

The SBI includes other asset classes in the Combined Funds to provide some protection against highly inflationary or deflationary environments and for portfolio diversification to reduce return volatility.

The allocation to **Fixed Income** acts as a hedge against a deflationary economic environment. In the event of substantial deflation,

Combined Funds Investment Program Overview



high-quality fixed income assets are expected to protect principal and generate significant capital gains. Fixed income, like real estate and real assets, under normal financial conditions, helps to diversify the Combined Funds, thereby moderating return volatility. The Treasury protection portfolio is expected to provide strong downside protection during periods of equity volatility over the long term.

Real Estate and Real Assets investments are intended to provide an inflation hedge that other financial assets cannot offer. Under normal financial conditions, such as low to moderate inflation, the returns on these assets are not highly correlated with common stocks. As a result, the inclusion of these assets in the Combined Funds is intended to dampen return volatility.

Private Credit investments provide the opportunity for higher long-term returns than those typically available from bonds. Typically, these

investments (e.g., subordinated debt, mezzanine debt, or debt collateralized with tangible assets such as real estate or infrastructure) are structured more like fixed income securities with the opportunity to participate in the appreciation of the underlying assets. While these investments may have an equity component, they display a return pattern more like a bond. Overall, this allocation is intended to reduce the volatility of the total portfolio, while generating higher returns relative to more traditional bond investments.

Investment Management

All assets in the Combined Funds are managed externally by professional investment management firms retained by contract. More information on the structure, management, and performance of the various investment managers is included in the respective asset class category's section of this report.

Return Objectives

The SBI measures the performance of the Combined Funds relative to the following total rate of return objectives:

- **Provide Real Returns:** Over a 20-year period, the Combined Funds are expected to produce returns that exceed inflation by three to five percentage points on an annualized basis.
- **Match or Exceed Market Returns:** Over a 10-year period, the Combined Funds are expected to match or exceed a composite of market indices weighted using the policy asset allocation of the Combined Funds.

Investment Results

Comparison to Inflation

Over the last 20 years, the Combined Funds performance exceeded inflation on average by 5.7 percentage points per year. Historical results compared to inflation are shown in Figure 13 on page 28.

Comparison to Market Returns

The Combined Funds' performance is also evaluated relative to a composite of market indices which is weighted in a manner that reflects the policy asset allocation of the Combined Funds. Performance relative to this standard will measure two effects:

- The ability of the managers selected by the SBI, in aggregate, to add value above the returns available from the broad capital markets.

Combined Funds Investment Program Overview

— The impact of the SBI’s rebalancing activity. The SBI rebalances the Combined Funds when asset segments are above or below their long-term asset allocation targets. This policy imposes a low-risk discipline of “buy low, sell high” among asset classes on a total fund basis.

Historical performance results for the Combined Funds relative to its composite index are shown in Figures 14A and 14B.

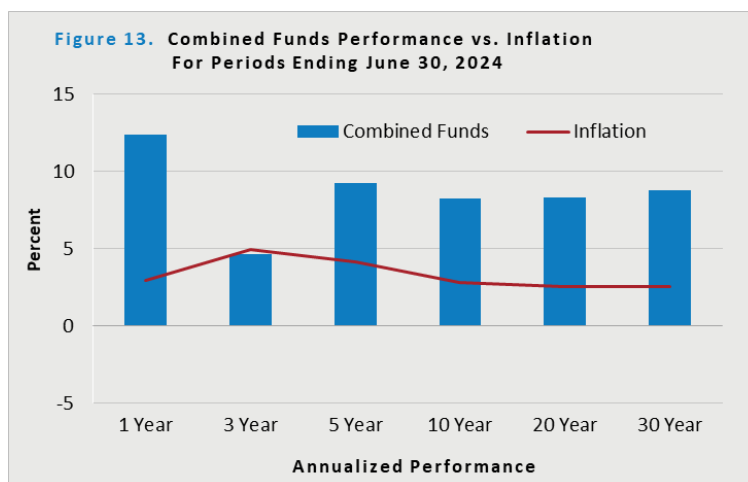
Average annual performance includes terminated manager performance. Performance reflects the deduction of investment management fees and any profit-sharing arrangements. Performance greater than one year is annualized. Past performance does not guarantee future results.

The Combined Funds outperformed the composite index in fiscal year 2024. The Funds’ annualized performance exceeded the composite index over the last 10 years and, therefore, met its stated performance goal. The breakdown of the composite index is provided in Figure 15 on page 29.

Comparison to Other Funds

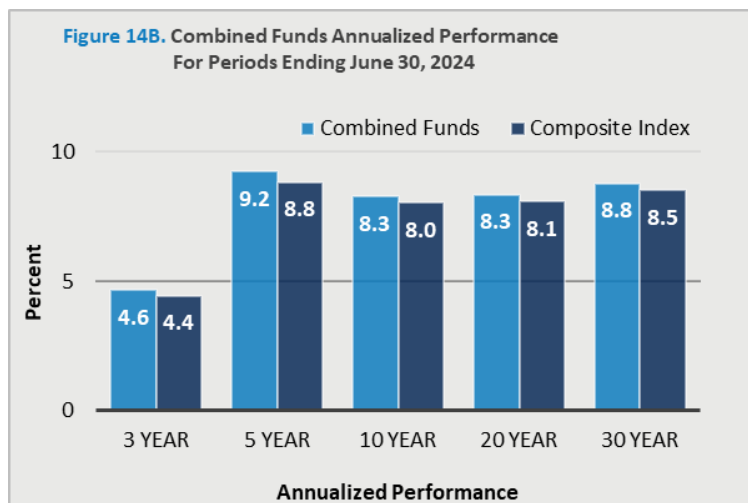
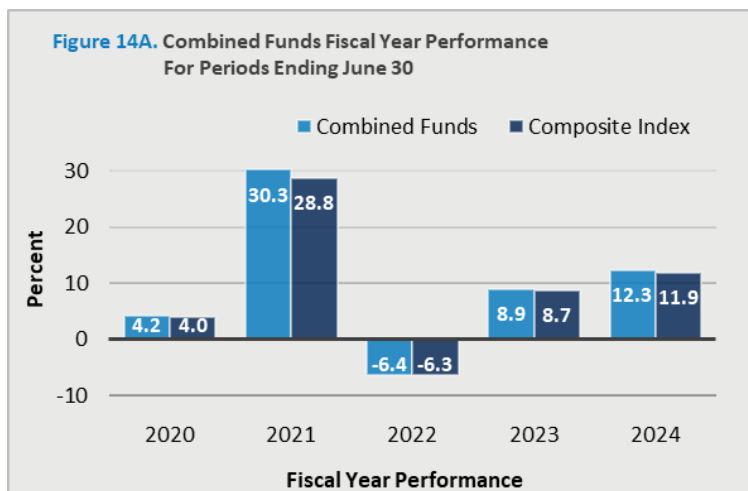
While the SBI does attempt to evaluate how its returns compare to other pension investors, universe comparison data should be used with great care. There are two primary reasons why such comparisons will provide an “apples-to-oranges” look at performance:

- **Differing Allocations:** Asset allocation has a dominant effect on returns. The allocation to equities



Combined Funds Performance (%) For Periods Ending June 30, 2024

	Annualized Performance					
	1 Year	3 Year	5 Year	10 Year	20 Year	30 Year
Combined Funds	12.3	4.6	9.2	8.3	8.3	8.8
Inflation	3.0	5.0	4.2	2.8	2.6	2.5



Combined Funds Investment Program Overview

among the funds in TUCS typically ranges from 20% to 90%, too wide of a range for meaningful comparison. In addition, we observe that many funds do not include private markets holdings in their reports to TUCS. This can further distort comparisons among funds.

- **Differing Goals/Liabilities:** Pension funds differ in terms of liabilities and risk tolerances and their asset allocations are determined based on unique circumstances. Since asset mix is the primary determinant of investment results, universe rankings should be considered accordingly.

Figure 16 shows the performance rank of the Combined Funds compared to other public and corporate pension funds with over \$20 billion in assets in the Master Trust portion of TUCS.

Figure 15. Composite Index as of June 30, 2024

Asset Class	Market Index	Composite Index Weights % ¹
Public Equity	Public Equity Composite Benchmark ²	50
Fixed Income	Fixed Income Composite Benchmark ³	25
Private Markets	Private Markets ⁴	25
Total		100

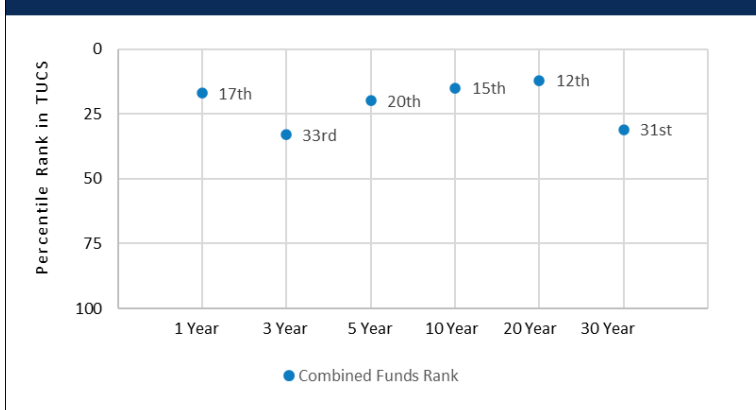
¹Weights are reset in the composite index at the start of each month to reflect the combined allocation policies of the Combined Funds.

²Since 12/1/2020 the benchmark represents 67% Russell 3000 and 33% MSCI ACWI ex U.S. (net). From 1/1/2019 to 12/1/2020 it was 60.3% Russell 1000, 6.7% Russell 2000, 24.75% MSCI World Ex U.S. (net), and 8.25% MSCI EM (net). From 7/1/2017 to 12/31/2018 it was 67.0% Russell 3000 and 33.0% MSCI ACWI ex U.S. (net). From 6/30/16-6/30/17 the Public Equity benchmark adjusted by 2% each quarter from 75% Russell 3000 and 25% MSCI ACWI ex U.S. until it reached 67% and 33%. Prior to 6/30/2016 the returns of Domestic and International Equity were not reported as a total Public Equity return.

³Since 7/1/2020 the benchmark represents 40% Bloomberg U.S. Aggregate Index, 40% Bloomberg Treasury 5+ Year Index, 20% ICE BofA U.S. 3 Month Treasury Bill. From 4/1/2019 to 6/30/2019 it was 50% Bloomberg U.S. Aggregate and 50% Bloomberg Treasury 5+ Year Index. From 2/1/2018 to 3/31/2019 the weighting reflected the relative weights of Core Bonds and Treasuries allocations in Combined Funds Composite.

⁴Private Markets actual performance is used for this calculation.

Figure 16. Combined Funds Performance Compared to Other Public Funds For Periods Ending June 30, 2024



	1 Year	3 Year	5 Year	10 Year	20 Year	30 Year
Combined Funds ¹	17th	33rd	20th	15th	12th	31st

¹Percentile rank in Trust Universe Comparison Service (TUCS) Total Returns of Master Trust - Public Plans, compared to other public plans greater than \$20 billion.

Combined Funds

Strategic Allocation Category Framework

The SBI adopted a **Strategic Allocation Category Framework** and a **Volatility Equivalent Benchmark** in September 2017 for the purpose of increasing focus on investment risk within the Combined Funds portfolio.

Objective

The objective of the Strategic Allocation Category Framework is to provide additional insights into the portfolio's overall risk exposures, including expected volatility.

The Board approved the adoption of the Strategic Allocation Category Framework to better define the different roles that asset classes play in the portfolio. This approach considers more “why we invest” than “what we invest in.” Such approaches were developed in response to the financial crisis in 2008, when it was observed that typically diversifying asset classes could still be highly correlated to public equities during periods of market stress.

Many institutional investors have advocated for approaches like the Strategic Allocation Category Framework based on an acknowledgment that certain asset classes (e.g., equities and high-yield corporate bonds) respond to the same underlying fundamental factors and economic drivers, and, therefore, the returns of these assets may become more highly correlated during periods of market stress, resulting in diminished diversification benefits. As a result, simple models of asset diversification (e.g. more asset classes = better diversification) have evolved into an appreciation that robust risk-reducing diversification comes from having assets that behave differently during various economic regimes. Some investors refer to this approach as a risk-based allocation approach.

Key factors in the development of a Strategic Allocation Category Framework for the SBI are 1) defining the role of the strategic allocation categories and 2) grouping asset classes that respond to similar economic drivers into the same strategic allocation category.

Allocation Categories

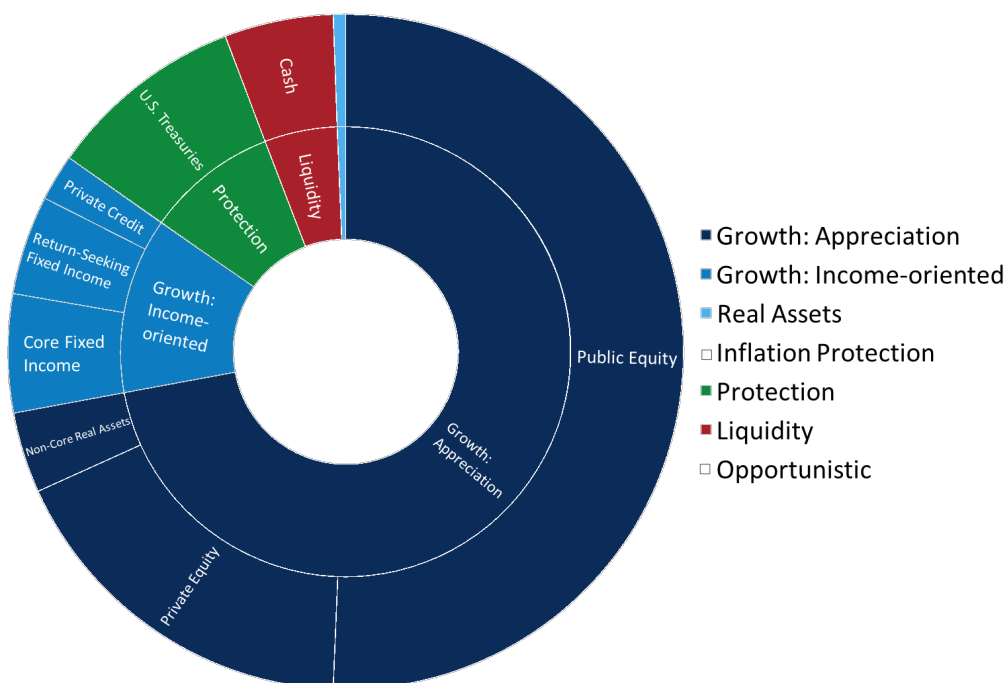
The following are the strategic allocation categories within the Framework and their intended roles within the portfolio.

- **Growth-Appreciation:** Represents the primary reason for investing, which is to achieve attractive rates of return. Growth is the primary return-seeking strategic allocation category with the objective of generating long-term capital appreciation by participating in global economic growth driven primarily by exposure to the equity risk premium.
- **Growth-Income:** Attributes of this category include the generation of stable levels of current income and capital appreciation at lower levels of risk than Growth-Appreciation assets, preservation of the principal value of assets, and diversification relative to the primary drivers of return in the Growth category. (Some asset classes could reasonably be categorized under either the Growth-Appreciation or the Growth-Income category. In these cases, SBI staff has applied judgment to determine the most appropriate categorization.)
- **Real Assets:** Provides diversification through investments in “hard” assets that have inflation-sensitive characteristics or the ability to provide a hedge against inflation.
- **Inflation Protection:** Provides diversification through investments in “soft” assets (e.g., Inflation-linked securities, commodities) that have a direct link to inflation. These assets provide a potential hedge against inflation.
- **Protection:** Provides stability and protection during crises and can act as a hedge against deflation.
- **Liquidity:** Provides liquidity to meet daily obligations; primarily benefit payments and capital calls. Consists of cash and cash equivalents.
- **Opportunistic:** The purpose of this category is to allow for investments in compelling opportunities or new strategies that do not clearly fit in the other asset categories. Asset allocation constraints should not preclude investors from accessing interesting and attractive opportunities.

Combined Funds Strategic Allocation Category Framework

The **Strategic Allocation Category Framework** is an integral part of the development and management of the asset allocation of the Combined Funds. Figure 17 shows the breakdown of assets within each strategic allocation category by their intended roles within the Combined Funds.

Figure 17: Status of Strategic Allocation Category Framework as of June 30, 2024



	6/30/2024 (in Millions)	6/30/2024 Weights	Category Range		6/30/2024 (in Millions)	6/30/2024 Weights	Category Range	
Growth - Appreciation					Inflation Protection			
Public Equity	\$ 47,381.3	50.6%			TIPS	\$ -	0%	
Private Equity	\$ 16,519.5	17.6%			Commodities	\$ -	0%	
Non-Core Real Assets	\$ 3,634.3	3.9%				\$ -	0%	0% 10%
	\$ 67,535.1	72.1%	50%	75%	Protection			
Growth - Income-oriented					U.S. Treasuries	\$ 8,862.0	9.5%	
Core Fixed Income	\$ 5,307.9	5.7%				\$ 8,862.0	9.5%	5% 20%
Private Credit	\$ 2,071.4	2.2%			Liquidity			
Return-Seeking Fixed Income	\$ 4,462.5	4.8%			Cash	\$ 4,883.8	5.2%	
	\$ 11,841.8	12.6%	15%	30%		\$ 4,883.8	5.2%	0% 5%
Real Assets					Opportunistic			
Core Real Estate	\$ -	0%			Opportunistic	\$ -	0%	0% 10%
Real Assets	\$ 556.0	0.6%						
	\$ 556.0	0.6%	0%	10%				
Total	\$ 93,678.7	100%						
Illiquid Asset Exposure	\$ 22,781.2	24.3%	0%	32%				

Combined Funds Volatility Equivalent Benchmark

Volatility Equivalent Benchmark

The **Volatility Equivalent Benchmark** was introduced to provide metrics for comparing the longer-term (five years or greater) investment performance of the Combined Funds portfolio relative to a passively managed equity and bond portfolio with a similar level of risk (as measured by its standard deviation) over the same time period. The comparison indicates how the investment decisions made for the portfolio have performed relative to a passively managed index strategy (which we would be unable to define on a prospective basis).

Figure 18 compares the Combined Funds portfolio with the Volatility Equivalent Benchmark and indicates the value added by the SBI's approach to managing the investment program versus a simple buy-and-hold passive strategy.

Figure 18. Volatility Equivalent Benchmark Comparison For Periods Ending June 30, 2024								
As of June 30, 2024								
	1 Year	3 Year	5 Year	10 Year	15 Year	20 Year	25 Year	30 Year
SBI Combined Funds Performance	12.3%	4.6%	9.2%	8.3%	10.3%	8.3%	7.1%	8.8%
Volatility Equivalent Benchmark Performance			5.4%	5.4%	7.1%	6.1%	5.4%	6.7%
Value Added			3.8%	2.9%	3.2%	2.2%	1.7%	2.1%
Standard Deviation: Benchmark = Combined Funds			10.7%	9.1%	9.0%	9.4%	9.6%	9.6%
Benchmark Stock Weight			50%	54%	56%	56%	59%	60%
Benchmark Bond Weight			50%	46%	44%	44%	41%	40%

The Volatility Equivalent Benchmark stock and bond weights are adjusted to equal the standard deviation of the SBI Combined Funds portfolio. Then performance is calculated. The bond performance used is the Bloomberg U.S. Aggregate. The stock performance used is the MSCI AC World Net Return Index. Prior to 12/31/98 it was the MSCI ACWI Total Return Index and pre-11/1/1993 it was the Wilshire 5000 adjusted for various SBI investment restrictions.

Combined Funds

Public Equity Program

Public Equity Program

The Combined Funds have a 50% target allocation to public equities, which is invested across domestic, international, and global equity segments. Each segment within the Public Equity Program is described in the respective sections of this annual report.

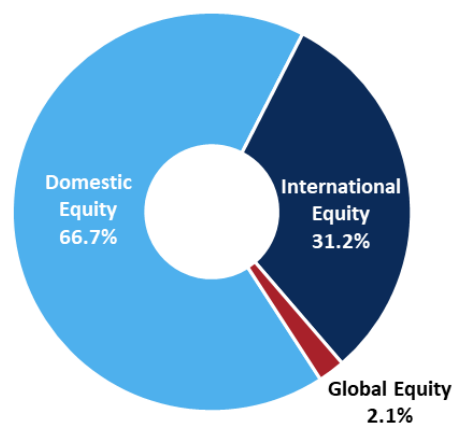
Allocation

The asset allocation target and actual weights within the Public Equity Program as of June 30, 2024, are shown below in Figure 19. The global equity segment, which includes both domestic and international holdings, does not have a target allocation at this time.

Figure 19. Public Equity Program Policy Allocation and Asset Mix as of June 30, 2024

Segment	Target Allocation	Actual	
		Asset Mix	Assets (in Millions)
Domestic Equity	67%	66.7%	\$32,115.0
International Equity	33%	31.2%	\$15,014.9
Global Equity	NA	2.1%	\$1,034.2
Public Equity Program	100%	100%	\$48,164.1

Public Equity Asset Mix as of June 30, 2024



Benchmark

The benchmarks used to monitor the returns of each segment are listed below. The Public Equity Program composite return consists of the respective segment benchmarks weighted by the target allocation of each segment.

Asset Class Segment	Benchmark
Domestic Equity	Russell 3000
International Equity	MSCI ACWI ex U.S. (net)
Global Equity	MSCI ACWI (net)

Figure 20. Public Equity Performance (%) For Periods Ending June 30, 2024

Segment/Benchmark	Annualized Performance			
	1 Year	3 Year	5 Year	10 Year
Domestic Equity	23.5	8.0	14.2	12.1
<i>Domestic Equity Benchmark</i>	23.1	8.1	14.1	12.1
International Equity	12.8	2.0	6.8	4.7
<i>International Equity Benchmark</i>	11.6	0.5	5.5	3.8
Global Equity	12.0	-1.8	NA	NA
<i>Global Equity Benchmark</i>	19.4	5.4	NA	NA
Public Equity	19.8	5.9	11.7	9.8
<i>Public Equity Benchmark</i>	19.3	5.6	11.3	9.6

Performance

Figure 20 provides the performance for the Public Equity Program and its underlying segments as of June 30, 2024. The global equity segment was funded in January 2021; therefore, only three full years of performance are available.

Fiscal Year 2024 Changes

During fiscal year 2024, two investment managers were removed from the international equity segment. The assets invested by these managers were reallocated among other existing managers in the international equity segment.

Combined Funds

Public Equity Program: Domestic Equity

Domestic Equity

The domestic equity segment of the Public Equity Program invests in the broad U.S. equity market and represents the largest asset class allocation within the Combined Funds portfolio.

As of June 30, 2024, the Combined Funds domestic equity segment totaled over \$31.5 billion in assets.

Objective

The objective of the domestic equity segment is to provide broad U.S. equity exposure for the Combined Funds. The SBI's **return objectives** are measured against the published Russell style and market capitalization indices representing the managers' specific investment approaches. These indices consider the varying equity market forces that affect different investment styles. Thus, a Russell-style index or

benchmark is a more appropriate return target against which to judge a manager's returns than the Russell 3000 broad market index.

Active managers are expected to exceed their benchmark by an amount appropriate for their active risk level. This active risk level varies by manager and is influenced by the manager's stated strategy and style. Assets are allocated across styles and, in most cases, within each style and are allocated to multiple managers. This allocation approach seeks to minimize style bias within the domestic equity segment. A sector breakdown for the domestic equity segment and each of the respective Russell benchmarks is shown in Figure 21.

Two primary long-term **risk objectives** have been established for the domestic equity managers:

- **Investment Approach:**
Each manager (active, semi-passive, or passive) is expected to hold a portfolio with risk characteristics that are consistent with the manager's stated investment approach. In the short term, market fluctuations may result in a departure from the active manager's risk targets depending on specific investment strategies.
- **Diversification:**
The passive and semi-passive managers are expected to hold highly diversified portfolios. In contrast, each active domestic equity manager may hold a more concentrated portfolio, as appropriate for the manager's particular investment strategy and style.

Figure 21. Domestic Equity Segment Russell Global (U.S.) Sector Weights (%) as of June 30, 2024

Russell Global (U.S.) Sector Classification	Domestic Equity (DE) Segment Aggregates				Benchmark		
	Active Management	Semi-Passive Management	Passive Management	Total DE Segment	Russell 1000	Russell 2000	Russell 3000
Basic Materials	2.5	1.1	1.6	1.6	1.6	3.6	1.7
Consumer Discretionary	16.3	13.7	13.7	13.9	13.7	12.6	13.6
Consumer Staples	1.4	3.6	4.3	4.0	4.4	2.7	4.3
Energy	5.4	3.4	3.8	3.9	3.8	7.1	3.9
Financials	11.7	9.2	10.4	10.3	10.4	15.2	10.6
Health Care	12.3	12.2	11.2	11.4	11.2	15.0	11.4
Industrials	16.0	12.7	11.8	12.3	11.9	18.6	12.2
Real Estate	3.0	1.8	2.4	2.4	2.4	6.0	2.6
Technology	21.2	36.4	35.7	34.4	36.1	14.2	35.1
Telecommunications	1.2	1.7	1.9	1.8	2.0	1.2	1.9
Utilities	2.0	2.6	2.4	2.4	2.5	2.6	2.5
Cash	1.9	0.2	0.3	0.5	N/A	N/A	N/A
Not Classified ¹	5.1	1.4	0.5	1.0	N/A	N/A	N/A
Assigned Benchmark	Custom ²	Russell 1000	Custom ³	Custom ⁴			

Source: Factset

¹Holdings not included in benchmark.

²The active domestic equity benchmark is a weighted composite of each of the individual active domestic equity managers' benchmarks.

³The current passive domestic equity benchmark is a weighted average of the Russell 1000, Russell 2000, and Russell 3000.

⁴As of 12/1/2020 the domestic equity segment benchmark is the Russell 3000; from 1/1/2019-11/30/2020 it was 90% Russell 1000 and 10% Russell 2000.

Combined Funds

Public Equity Program: Domestic Equity

During fiscal year 2024, domestic equity managers met their long-term risk objectives. The managers constructed portfolios consistent with their stated investment approaches and maintained appropriate levels of diversification for their respective styles and investment approaches.

Management Structure

The SBI employs three management styles to invest the assets of the domestic equity segment: active, semi-passive, and passive. External investment managers manage all portfolios.

— Active Management:

Each active manager is expected to add value relative to the Russell style index that reflects its investment approach or style over the long term.

At the end of fiscal year 2024, approximately 9.5% of the domestic equity segment was actively managed by a group of 13 investment managers. The assets allocated to each manager ranged in size from approximately \$175 million to \$406 million.

— Semi-Passive Management:

The semi-passive managers are expected to add incremental value relative to the Russell 1000 Index. These managers employ a strategy that more closely tracks the benchmark than active management and seeks to produce modest excess returns on a consistent basis.

At the end of fiscal year 2024, approximately 12.6% of the domestic equity segment was managed by

two semi-passive investment managers, each managing approximately \$2.0 billion.

— Passive Management:

The passive manager in the domestic equity segment manages the portfolios to closely track the respective Russell indices consistently and inexpensively.

At the end of fiscal year 2024, approximately 77.9% of the domestic equity segment was passively managed by one external manager across three distinct investment

mandates, the Russell 3000 Index, Russell 2000 Index and Russell 1000 Index, with portfolio values ranging from approximately \$68 million to \$24.0 billion.

Investment Manager Summaries

A description of each domestic equity manager's investment approach is included in the **Investment Manager Summaries** section beginning on page 43.

Investment Performance

The goal of the domestic equity segment is to outperform its asset class target, the Russell 3000 Index.

Figure 22A. Domestic Equity Fiscal Year Performance For Periods Ending June 30

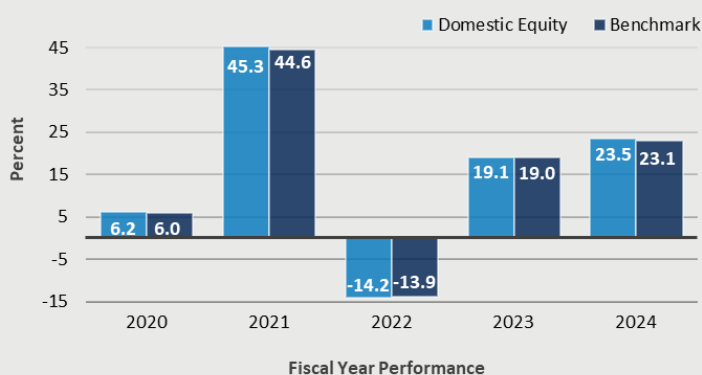
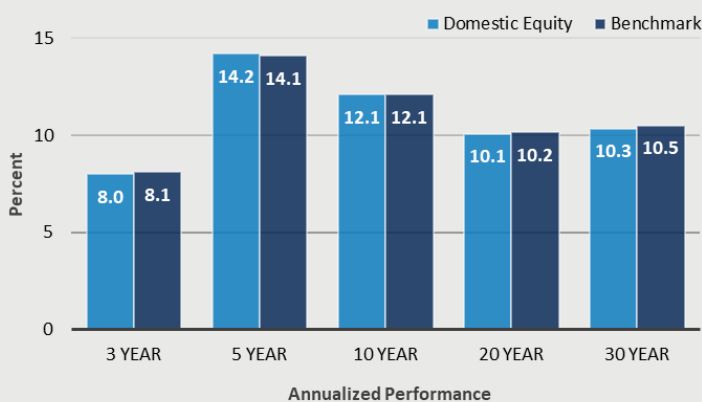


Figure 22B. Domestic Equity Annualized Performance For Periods Ending June 30, 2024



Combined Funds

Public Equity Program: Domestic Equity

Figures 22A and 22B (on the previous page) provide historical performance results for the domestic equity segment.

Each manager's performance is also compared to its relevant Russell style benchmark. Comparisons to a manager's style benchmark enables the SBI to evaluate the managers' individual and aggregate results with respect to risk incurred and returns achieved. Individual manager performance for fiscal year 2024 is shown in Figure 23.

In aggregate, the domestic equity segment outperformed its asset class benchmark by 0.4 percentage points for the fiscal year. Active managers outperformed their asset class benchmark by 1.4 percentage points for the fiscal year, while the semi-passive managers outperformed their asset class benchmark by 2.7 percentage points over the same period.

Figure 23. Domestic Equity Manager Performance (%) For Periods Ending June 30, 2024						
Manager Strategy/Benchmark	1 Year	Annualized Performance			Market Value ¹ (in Millions)	
		3 Year	5 Year	10 Year		
Active Management						
All Cap Growth						
Zevenbergen Capital	25.3	-8.6	12.1	13.2	\$224.8	
<i>Russell 3000 Growth</i> ²	32.2	10.3	19.9	16.6		
Large Cap Growth						
Sands Capital Management	30.6	-4.8	10.9	12.2	\$234.9	
Winslow Capital Management	39.4	10.3	17.8	15.9	\$260.8	
<i>Russell 1000 Growth</i>	33.5	11.3	19.3	16.3		
Large Cap Value						
Barrow Hanley	17.6	9.8	12.0	9.8	\$406.1	
LSV Asset Management	15.0	5.3	9.7	8.6	\$354.4	
<i>Russell 1000 Value</i>	13.1	5.5	9.0	8.2		
Small Cap Growth						
ArrowMark	6.0	-4.3	5.4	NA	\$184.6	
Hood River	24.6	2.2	15.9	NA	\$209.1	
Rice Hall James	7.8	-3.0	6.0	NA	\$185.7	
Wellington	11.1	-3.8	6.5	NA	\$212.8	
<i>Russell 2000 Growth</i>	9.1	-4.9	6.2	NA		
Small Cap Value						
Goldman Sachs	10.0	0.3	5.7	6.0	\$180.2	
Hotchkis & Wiley	11.5	9.1	12.2	7.7	\$204.7	
Martingale Asset Management	14.3	6.7	10.2	8.0	\$174.7	
Peregrine Capital Management	9.4	0.4	7.3	6.1	\$209.6	
<i>Russell 2000 Value</i>	10.9	-0.5	7.1	6.2		
Semi-Passive Management						
BlackRock Institutional Trust Company	26.9	9.7	15.1	13.2	\$2,023.4	
J.P. Morgan Investment Management	26.3	10.6	16.1	13.3	\$2,034.9	
<i>Russell 1000</i>	23.9	8.7	14.6	12.5		
Passive Management: BlackRock Institutional Trust Company						
All Cap						
	23.2	8.1	14.3	12.3	\$938.8	
<i>Russell 3000</i>	23.1	8.1	14.1	12.1		
Large Cap						
	23.9	8.7	14.6	NA	\$24,007.5	
<i>Russell 1000</i>	23.9	8.7	14.6	NA		
Small Cap						
	10.0	-2.4	7.4	NA	\$68.0	
<i>Russell 2000</i>	10.1	-2.6	6.9	NA		
Domestic Equity						
	23.5	8.0	14.2	12.1	\$32,115.0	
<i>Domestic Equity Benchmark</i> ³	23.1	8.1	14.1	12.1		

¹Market values include Supplemental Investment Fund (SIF) assets.

²As of 1/1/2021 Zevenbergen's benchmark is the Russell 3000 Growth Index, prior to that it was the Russell 1000 Growth.

³As of 12/1/2020 the benchmark for the domestic equity segment is the Russell 3000; from 1/1/2019-11/30/2020 it was 90% Russell 1000 and 10% Russell 2000; from 10/1/2003 - 12/31/2018 it was the Russell 3000.

Combined Funds

Public Equity Program: International Equity

International Equity

The international equity segment of the Public Equity Program is the broad non-U.S. equity investment program for the Combined Funds.

As of June 30, 2024, the Combined Funds international equity assets totaled \$14.8 billion.

Objective

The international equity allocation aims to provide broad exposure to non-U.S. equities for the Combined Funds. The SBI's *return objectives* are stated relative to the MSCI Standard indices, which include large- and mid-capitalization stocks. The indices are capitalization weighted and measured in U.S. dollar terms, with currencies unhedged.

Individual active managers are expected to exceed their respective benchmarks by an amount appropriate for their level of active risk. The active risk level varies by manager and is influenced by the manager's stated strategy and style.

Two long-term *risk objectives* exist for the international equity managers:

- **Investment Approach:** Each manager (active or passive) is expected to hold a portfolio consistent with the manager's stated investment approach.
- **Diversification:** The passive manager is expected to hold highly diversified portfolios. In contrast, each active manager may hold a more concentrated portfolio, as appropriate for

the manager's particular investment strategy and style.

During fiscal year 2024, international equity managers constructed portfolios consistent with their stated investment approaches and maintained appropriate levels of diversification.

Management Structure

Currently, the SBI uses two management styles (active and passive) to invest the assets of the international equity segment. At the end of fiscal year 2024, 70% of the international equity segment was allocated to developed markets, 25% was allocated to emerging markets, and 4% was allocated to opportunistic investment strategies.

— Active Management:

At the end of fiscal year 2024, approximately 37% of the segment was actively managed in separate portfolios. These portfolios range in size from approximately \$101 million to over \$622 million.

The active managers may address currency management as part of their investment process. Their views on currency may be factored into their country and security selection; they may elect to hedge currency exposure opportunistically or seek to add value by actively managing currency positions. Managers are not required to hedge currency risk.

- **Developed Markets:** Active managers invest entirely in developed

markets and use a variety of investment approaches in an effort to maximize the value added relative to the MSCI World ex U.S. Index (net) over time.

- **Emerging Markets:** Active managers invest entirely in emerging markets and use a variety of investment approaches. They are expected to add incremental value, over time, relative to the MSCI Emerging Markets Index (net) which is made up of markets in developing countries throughout the world.
- **Opportunistic Investment Strategies:** Other actively managed investment strategies that are expected to add incremental value over time are the non-U.S. all-country portfolio, which is measured against the MSCI ACWI ex U.S. (net) Index, and the China A-share portfolio, which is measured against the MSCI China A Index.

- **Passive Management:** At the end of fiscal year 2024, approximately 63% of the international equity segment was passively managed by State Street Global Advisors (SSGA) across two separate passive mandates: a developed markets equity index portfolio and an emerging markets equity index portfolio, with market values of approximately \$8.2 billion and \$1.1 billion, respectively.

Combined Funds

Public Equity Program: International Equity

The passive manager in the international equity segment manages the developed markets equity index portfolio to consistently and inexpensively track the developed markets MSCI World ex USA Index (net) and manages the emerging markets equity index portfolio to track the MSCI Emerging Markets Index (net).

Currency Overlay Program

The currency overlay program is an active currency risk management strategy. The goal of the currency overlay program is to:

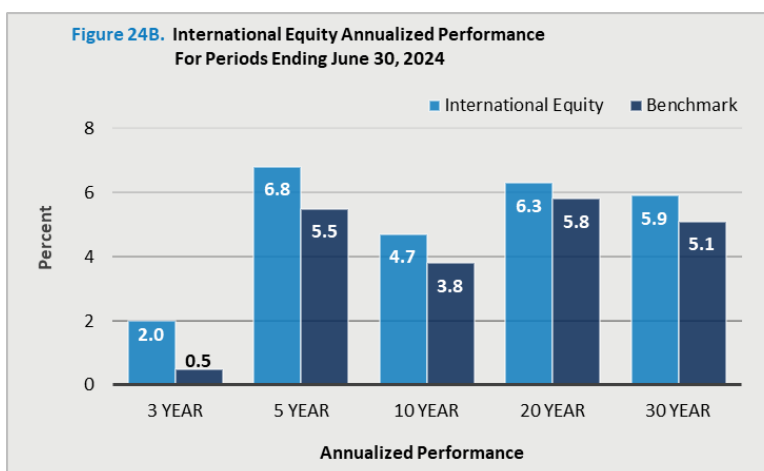
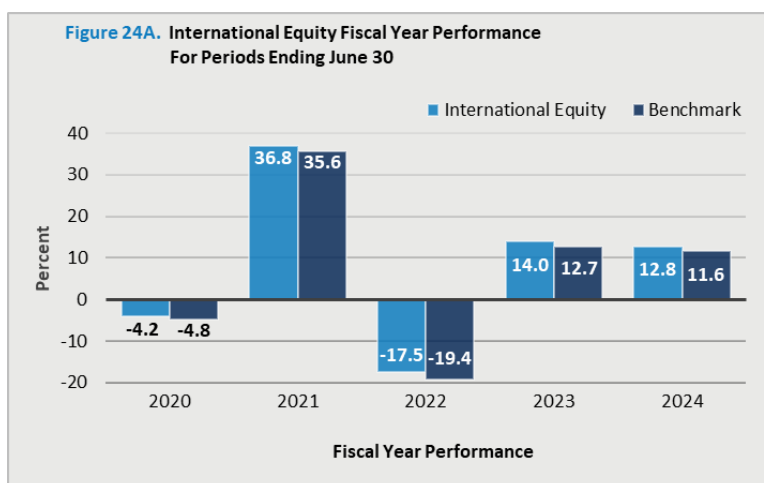
- Explicitly manage the currency risk inherent within the passive and selected active international equity portfolios.
- Seek to provide a hedge against a decline in the value of the Funds' international equity investments caused by currency fluctuations.

Investment Manager Summaries

A description of each international equity manager's investment approach is included in the **Investment Manager Summaries** section beginning on page 50.

Investment Performance

The goal of the international equity segment is to outperform the asset class target, the MSCI ACWI ex U.S. (net). The international equity segment outperformed its target by 1.2 percentage points for fiscal year 2024. Over longer time periods, the segment has consistently exceeded its benchmark. Performance results for the international equity segment are shown in Figures 24A and 24B.



Individual manager performance as of the end of fiscal year 2024 is shown in Figure 25 on the following page.

The international equity segment's weightings by country are displayed in Figure 26 on page 40.

Fiscal Year 2024 Changes

During fiscal year 2024, two investment managers were removed from the international equity segment. The assets invested by these managers were reallocated among other existing managers in the international equity segment.

Combined Funds

Public Equity Program: International Equity

Figure 25. International Equity Manager Performance (%) For Periods Ending June 30, 2024

Manager Strategy/Benchmark	Annualized Performance				Market Value ¹ (in Millions)
	1 Year	3 Year	5 Year	10 Year	
Developed Markets					
Active Management					
Acadian Asset Management	15.7	2.6	7.5	6.7	\$588.9
Columbia Management Investment Advisers	14.5	5.1	9.5	7.2	\$526.7
Fidelity Institutional Asset Management	10.9	2.0	7.6	5.6	\$505.2
J.P. Morgan Investment Management	9.5	1.3	6.4	4.7	\$374.5
Marathon Asset Management	12.1	3.5	7.6	5.4	\$431.0
<i>MSCI World ex U.S. net</i>	11.2	2.8	6.6	4.3	
Passive Management					
State Street Global Advisers	11.7	3.3	7.1	4.7	\$8,151.0
<i>MSCI World ex U.S. net</i>	11.2	2.8	6.6	4.3	
Emerging Markets					
Active Management					
Macquarie Investment Management Advisers	24.9	-3.1	6.4	NA	\$551.4
Martin Currie Investment Management	4.9	-9.5	2.5	NA	\$540.1
Morgan Stanley Investments Management	15.6	-3.8	3.9	3.2	\$622.1
Pzena Investment Management	13.6	3.4	7.9	NA	\$616.6
Rock Creek	8.0	-7.6	2.5	NA	\$328.8
<i>MSCI Emerging Markets net</i>	12.5	-5.1	3.1	2.8	
Passive Management					
State Street Global Advisers	11.7	-5.5	2.8	2.7	\$1,131.9
<i>MSCI Emerging Markets net</i>	12.5	-5.1	3.1	2.8	
Opportunistic Investment Strategies					
Active Management					
Earnest Partners	11.0	3.0	NA	NA	\$415.5
<i>MSCI ACWI ex U.S. net</i>	11.6	0.5	NA	NA	
Earnest Partners	-13.5	-15.8	NA	NA	\$123.8
<i>China A Index</i>	-8.8	-14.6	NA	NA	
Currency Overlay Program					
Active Management					
Record Currency ²	1.3	1.9	NA	NA	\$100.8
International Equity³	12.8	2.0	6.8	4.7	\$15,014.9
<i>International Equity Benchmark⁴</i>	11.6	0.5	5.5	3.8	

¹Market Value includes assets of the SIF Broad International Equity Fund and portfolios in liquidation phase. Totals may not add due to rounding.

²Reflects the current mark-to-market value of the program's open currency hedges, which may represent positive or negative notional value.

³International Equity total market value includes \$1.8 million in transitional management and \$4.7 million in liquidating portfolios.

⁴International Equity benchmark is the MSCI ACWI ex U.S. Index (net) since 1/1/2020; prior to that it was 75% MSCI World ex U.S. Index (net) and 25% MSCI Emerging Markets Index (net). From 6/1/08 to 12/31/18 the target was the MSCI ACWI ex U.S. (net).

Combined Funds

Public Equity Program: International Equity

Figure 26. International Equity Aggregate Country Weights as of June 30, 2024

Country ¹	Segment Weight (%)	Benchmark Weight (%) ²
Argentina	0.1	0.0
Australia	4.6	4.1
Austria	0.3	0.2
Belgium	0.8	0.5
Brazil	1.1	0.6
Canada	7.7	6.1
Chile	0.0	0.1
China	3.5	2.4
Czech Republic	0.0	0.1
Denmark	3.0	4.6
Finland	0.6	0.7
France	7.9	8.6
Germany	5.5	6.3
Hong Kong	1.6	0.8
Hungary	0.1	0.1
India	1.8	2.9
Indonesia	0.4	0.4
Ireland	0.3	0.2
Israel	0.5	0.4
Italy	1.9	1.2
Japan	15.9	19.9
Kazakhstan	0.1	0.0
Malaysia	0.0	0.3
Mexico	0.4	0.7
Netherlands	3.6	3.1
New Zealand	0.1	0.1
Norway	0.6	0.5
Peru	0.2	0.0
Philippines	0.0	0.1
Poland	0.1	0.1
Portugal	0.1	0.1
Saudi Arabia	0.2	0.0
Singapore	1.1	0.8
South Africa	0.4	0.9
South Korea	3.1	3.7
Spain	2.0	1.8
Sweden	2.0	1.8
Switzerland	6.5	8.0
Taiwan	3.1	6.4
Thailand	0.3	0.3
Turkey	0.1	0.2
United Kingdom	11.3	10.6
United States	0.7	0.0
U.S. Dollar	1.5	-
Other	4.3	-
Total³	100.0	100.0

¹Grouped by country of domicile. Source: Factset.
²Benchmark listed is the MSCI ACWI ex U.S. Index (net).
³Totals may not add due to rounding. Countries in the benchmark with less than 0.1% exposure were removed from list.

Combined Funds

Public Equity Program: Global Equity

Global Equity

The global equity segment of the Public Equity Program is made up of actively managed global equity portfolios.

As of June 30, 2024, the global equity segment had a market value of \$1.0 billion.

Objective

The global equity allocation seeks to provide enhanced returns through active management. The global nature of the strategy allows managers to invest in portfolios of their best ideas across international developed, emerging, and U.S. equity markets.

The SBI's *return objectives* for the global equity segment are stated relative to the MSCI ACWI (net) Index, which includes large and mid-capitalization stocks across developed and emerging markets, including the United States. The index is capitalization-weighted and measured in U.S. dollar terms, with currencies unhedged.

Individual active managers are expected to exceed their benchmark by an amount appropriate for their level of active risk. The active risk level varies by manager and is influenced by the manager's stated strategy and style.

Two long-term *risk objectives* exist for the global equity managers:

- **Investment Approach:** Each manager is expected to hold a portfolio consistent with the manager's stated investment approach.

Figure 27. Global Equity Manager Performance (%) For Periods Ending June 30, 2024

Manager Strategy/Benchmark	Annualized Performance		Market Value (in Millions)
	1 Year	3 Year	
Active Management			
Ariel Investments	8.5	4.7	\$390.4
Baillie Gifford	21.8	-8.4	\$256.8
Martin Currie Investment Management	9.5	-2.9	\$387.0
MSCI ACWI net	19.4	5.4	
Global Equity	12.0	-1.8	\$1,034.2
Global Equity Benchmark	19.4	5.4	

- **Diversification:** Active managers may hold more concentrated portfolios, as appropriate for the manager's particular investment strategy and style.

During fiscal year 2024, global equity managers constructed portfolios consistent with their stated investment approaches and maintained appropriate levels of diversification. The manager strategies utilized in the global equity segment tend to be more concentrated in fewer stocks. As a result, this segment can be expected to experience a higher level of performance volatility.

Management Structure

The global equity segment is actively managed by three external investment managers that were funded in December 2020. As of June 30, 2024, portfolio allocations ranged in size between approximately \$257 million to over \$390 million.

Investment Manager Summaries

A description of each global equity manager's investment approach is included in the **Investment Manager Summaries** section beginning on page 57.

Investment Performance

For the fiscal year, the global equity segment underperformed its benchmark by 7.4 percentage points. Underperformance in the global equity segment was driven by the managers' collective overweight to Europe and underweight to the U.S. relative to the benchmark.

Individual manager investment performance for the fiscal year is shown in Figure 27.

The global equity segment's country weights are displayed in Figure 28 on the following page.

Combined Funds

Public Equity Program: Global Equity

Figure 28. Global Equity Aggregate Country Weights as of June 30, 2024

Country ¹	Segment Weight (%)	Benchmark Weight (%) ²
Australia	1.1	1.7
Austria	0.4	0.0
Belgium	1.2	0.2
Brazil	0.7	0.4
Canada	0.7	2.7
China	4.5	2.5
Denmark	3.4	0.9
Finland	0.0	0.2
France	7.3	2.5
Germany	4.3	2.1
Hong Kong	0.5	0.4
India	0.5	1.8
Indonesia	0.0	0.1
Ireland	1.5	0.1
Israel	1.7	0.2
Italy	5.1	0.6
Japan	2.5	5.1
Kuwait	0.0	0.1
Malaysia -EM	0.0	0.1
Mexico	0.0	0.2
Netherlands	5.8	1.2
Norway	0.0	0.1
Peru	0.5	0.0
Philippines	0.0	0.1
Poland	0.0	0.1
Qatar	0.0	0.1
Saudi Arabia	0.0	0.4
Singapore	0.6	0.3
South Africa	0.0	0.3
South Korea	1.7	1.2
Spain	0.2	0.6
Sweden	2.3	0.7
Switzerland	1.4	2.2
Taiwan	1.4	2.0
Thailand	0.0	0.1
Turkey	0.0	0.1
United Arab Emirates	0.0	0.1
United Kingdom	2.2	3.4
United States	47.8	64.6
U.S. Dollar	1.0	-
Total³	100.0	100.0

¹Grouped by country of domicile. Source: Factset.

²Benchmark listed is the MSCI ACWI (net).

³Totals may not add due to rounding. Countries in the benchmark with less than 0.1% exposure were removed from list.

Combined Funds

Public Equity Program: Investment Manager Summaries

Domestic Equity Program Managers

Active All-Cap Growth (Russell 3000 Growth) Manager

Zevenbergen Capital Investments LLC

Product Name:	Growth Equity	Benchmark:	Russell 3000 Growth
Product Inception Date:	January 1987	Investment Style:	All-Cap Growth
Firm Assets (6/30/24):	\$4.7 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$2.6 billion	Investment Process:	Bottom-up
Product Location:	Edmonds, WA	Expected # of Holdings:	35-60
Date Funded:	April 1994	Expected Ann. Turnover:	35-40%

Zevenbergen’s investment philosophy is founded on the principles that superior fundamentals drive stock price appreciation and exceptional management combined with balance sheet strength provides capital protection. The Firm employs a forward-looking, bottom-up investment process designed with focus on long-term results. Portfolios are constructed with companies presenting compelling growth profiles – both established and prospective – across revenues, cash flows, and earnings.

Active Large-Cap Growth (Russell 1000 Growth) Managers

Sands Capital Management LLC

Product Name:	Select Growth	Benchmark:	Russell 1000 Growth
Product Inception Date:	February 1992	Investment Style:	Large-Cap Growth
Firm Assets (6/30/24):	\$53.7 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$13.6 billion	Investment Process:	Bottom-up
Product Location:	Arlington, VA	Expected # of Holdings:	25-30
Date Funded:	January 2005	Expected Ann. Turnover:	20-25%

Sands Capital maintains a single growth-oriented investment philosophy that has been applied across the Firm for over three decades. Sand’s philosophy is rooted in the belief that over time stock price appreciation follows the earnings power and growth of the underlying business. Sands acts on this belief by seeking to identify high-quality, wealth-creating growth businesses using a fundamental, business-focused research approach; constructing concentrated and conviction-weighted portfolios; and maintaining a long-term investment horizon. Sands believes their exclusive focus on growth investing, globally integrated research platform, and accumulated knowledge and experience position them well in their pursuit to find leading growth businesses and deliver on their mission of adding value and enhancing the wealth of their clients with prudence over time.

Winslow Capital Management LLC

Product Name:	U.S. Large-Cap Growth	Benchmark:	Russell 1000 Growth
Product Inception Date:	June 1992	Investment Style:	Large-Cap Growth
Firm Assets (6/30/24):	\$31.7 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$30.0 billion	Investment Process:	Bottom-up
Product Location:	Minneapolis, MN	Expected # of Holdings:	45-55
Date Funded:	December 2004	Expected Ann. Turnover:	50%

Winslow Capital believes that growth equities are a structurally advantaged asset class due to the compounding of earnings at superior growth rates and that, when purchased at reasonable valuations, they provide the best opportunity for achieving superior portfolio returns over the long term. Winslow’s team focuses on identifying companies with identifiable and sustainable competitive advantages, strong management teams, and improving fundamentals driving long-term shareholder value.

Combined Funds

Public Equity Program: Investment Manager Summaries

Domestic Equity Program Managers

Active Large-Cap Value (Russell 1000 Value) Managers

Barrow Hanley Global Investors

Product Name:	Large-Cap Value	Benchmark:	Russell 1000 Value
Product Inception Date:	October 1979	Investment Style:	Large-Cap Value
Firm Assets (6/30/24):	\$50.7 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$13.7 billion	Investment Process:	Bottom-up
Product Location:	Dallas, TX	Expected # of Holdings:	40-50
Date Funded:	April 2004	Expected Ann. Turnover:	25-35%

Barrow Hanley believes market inefficiencies create opportunities. Barrow Hanley seeks to exploit these inefficiencies by investing in stocks of good companies with a unique combination of cheapness (temporarily undervalued), change, and asymmetric return profiles. Through in-depth fundamental research, Barrow Hanley identifies companies with attractive business prospects that are trading at valuations below the market for inclusion in their portfolios. Barrow Hanley looks to capture opportunities from market inefficiencies by adhering to a disciplined, traditional value process with a longer-term time horizon. Barrow Hanley seeks to maximize the potential upside alpha generation and minimize risk by constructing portfolios with high conviction, high active share, and asymmetric risk/return profiles. This disciplined approach has been a hallmark of Barrow Hanley for the last four decades.

LSV Asset Management

Product Name:	U.S. Large-Cap Value	Benchmark:	Russell 1000 Value
Product Inception Date:	December 1993	Investment Style:	Large-Cap Value
Firm Assets (6/30/24):	\$96.2 billion	Fundamental/Quant:	Quantitative
Product Assets (6/30/24):	\$22.4 billion	Investment Process:	Bottom-up
Product Location:	Chicago, IL	Expected # of Holdings:	150-175
Date Funded:	April 2004	Expected Ann. Turnover:	25%

LSV's philosophy is that superior long-term results can be achieved by systematically exploiting the judgmental biases and behavioral weaknesses that influence the decisions of many investors. The Firm's processes use quantitative techniques to rank securities based on fundamental measures of value, past performance, and indicators of near-term appreciation potential. Portfolio construction seeks to systematically overweight securities that rank most attractive on these measures while underweighting securities with lower scores. The Firm employs a rigorous risk control discipline limiting the portfolio's industry, sector, and issuer concentrations.

Combined Funds

Public Equity Program: Investment Manager Summaries

Domestic Equity Program Managers

Active Small-Cap Growth (Russell 2000 Growth) Managers

ArrowMark Colorado Holdings LLC

Product Name:	Small-Cap Growth	Benchmark:	Russell 2000 Growth
Product Inception Date:	December 2013	Investment Style:	Small-Cap Growth
Firm Assets (6/30/24):	\$21.7 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$1.0 billion	Investment Process:	Bottom-up
Product Location:	Denver, CO	Expected # of Holdings:	80-120
Date Funded:	November 2016	Expected Ann. Turnover:	50%

ArrowMark manages a fundamentally driven small-cap growth portfolio and prioritizes downside risk while maintaining a long-term investment horizon. ArrowMark believes that companies with sustainable competitive advantages, growing from a low share of a large market at returns on capital that exceed cost of capital, can compound for longer, and create more value than is often priced into small-cap stocks. The team undertakes both quantitative analysis and qualitative assessments including interviews with management. The core of the fundamental research process is extensive financial modeling to forecast cash flow generation and value creation potential.

Hood River Capital Management LLC

Product Name:	Small-Cap Growth	Benchmark:	Russell 2000 Growth
Product Inception Date:	June 2002	Investment Style:	Small-Cap Growth
Firm Assets (6/30/24):	\$5.0 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$4.4 billion	Investment Process:	Bottom-up
Product Location:	Palm Beach Gardens, FL	Expected # of Holdings:	80-100
Date Funded:	November 2016	Expected Ann. Turnover:	100-160%

Hood River believes the small-cap market is relatively inefficient and that small-cap stocks are scrutinized less closely than large-cap companies, which creates an opportunity for research to add value within the asset class. In-depth, original research can uncover companies whose future fundamentals, such as sales or earnings, are likely to exceed the market's expectations. The investment team calls this difference between reality and the market's perception the "information gap." Hood River is intently focused on identifying and capturing the information gap in the small-cap market. Hood River aggressively pursues a research advantage by speaking to management teams, customers, competitors, suppliers, and other primary sources.

Rice Hall James & Associates LLC

Product Name:	RHJ Small-Cap Opportunities	Benchmark:	Russell 2000 Growth
Product Inception Date:	October 1994	Investment Style:	Small-Cap Growth
Firm Assets (6/30/24):	\$1.8 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$892 million	Investment Process:	Bottom-up
Product Location:	Los Angeles, CA	Expected # of Holdings:	50-70
Date Funded:	November 2016	Expected Ann. Turnover:	30-40%

Rice Hall James Small-Cap Opportunities strategy employs a fundamental, bottom-up analytical process to identify companies that meet three primary criteria: high earnings growth, high or improving return on invested capital (ROIC), and sustainable competitive advantages. The team's investment philosophy is rooted in historical analysis indicating the high relative return potential of these factors in combination. The team believes that superior results can be achieved by owning companies that exhibit not only high earnings growth, but also the ability to sustainably generate high ROIC over long periods of time.

Combined Funds

Public Equity Program: Investment Manager Summaries

Domestic Equity Program Managers

Active Small-Cap Growth (Russell 2000 Growth) Managers

Wellington Management Company LLP

Product Name:	Disciplined U.S. Small-Cap Growth	Benchmark:	Russell 2000 Growth
Product Inception Date:	May 2001	Investment Style:	Small-Cap Growth
Firm Assets (6/30/24):	\$1.3 trillion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$3.0 billion	Investment Process:	Bottom-up
Product Location:	Boston, MA	Expected # of Holdings:	125-150
Date Funded:	November 2016	Expected Ann. Turnover:	< 60%

Wellington’s investment philosophy is based on three core beliefs: 1) changes in the quality of a company’s fundamentals are often not reflected in its stock price; 2) the persistence of a company’s fundamentals is frequently underestimated by the market; and 3) active managers frequently underestimate the range of possible outcomes. Central to the investment process is fundamental research focused on uncovering companies with improving quality metrics, business momentum, and attractive relative valuations.

Active Small-Cap Value (Russell 2000 Value) Managers

Goldman Sachs Asset Management L.P.

Product Name:	U.S. Small-Cap Value Strategy	Benchmark:	Russell 2000 Value
Product Inception Date:	September 1997	Investment Style:	Small-Cap Value
Firm Assets (6/30/24):	\$2.6 trillion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$2.8 billion	Investment Process:	Bottom-up
Product Location:	New York, NY	Expected # of Holdings:	175-225
Date Funded:	January 2004	Expected Ann. Turnover:	50-80%

Goldman Sachs manages a small-cap value portfolio using a strong valuation discipline to purchase well-positioned, cash-generating businesses run by shareholder-oriented management teams. The team’s portfolio managers are organized by industry and use industry-specific valuation measures to evaluate companies within their area. They dissect historical financial reports, meet with management teams to evaluate a company’s competitive position within its industry, and evaluate each company’s valuation attractiveness relative to other comparable companies within the sector.

Hotchkis and Wiley Capital Management LLC

Product Name:	Small-Cap Value	Benchmark:	Russell 2000 Value
Product Inception Date:	October 1985	Investment Style:	Small-Cap Value
Firm Assets (6/30/24):	\$231.9 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$2.1 billion	Investment Process:	Bottom-up
Product Location:	Los Angeles, CA	Expected # of Holdings:	50-80
Date Funded:	January 2004	Expected Ann. Turnover:	30-50%

Hotchkis and Wiley seeks to exploit mispriced securities in the small-cap market by investing in “undiscovered” and “out of favor” companies. They invest in stocks of which the present value of the company’s future cash flows exceeds the current market price. Industry analysts determine a company’s normal earnings power, or sustainable earnings level under equilibrium economic and competitive market conditions, which becomes the basis for security valuation.

Combined Funds

Public Equity Program: Investment Manager Summaries

Domestic Equity Program Managers

Active Small-Cap Value (Russell 2000 Value) Managers

Martingale Asset Management L.P.

Product Name:	Small-Cap Value	Benchmark:	Russell 2000 Value
Product Inception Date:	July 1996	Investment Style:	Small-Cap Value
Firm Assets (6/30/24):	\$4.8 billion	Fundamental/Quant:	Quantitative
Product Assets (6/30/24):	\$199 million	Investment Process:	Multi-factor Systematic
Product Location:	Boston, MA	Expected # of Holdings:	250-350
Date Funded:	January 2004	Expected Ann. Turnover:	50-100%

Martingale employs a systematic, quantitatively-driven investment approach that seeks to exploit behavioral biases of investors. Martingale’s investment opinion for a stock—the stock’s alpha forecast—is derived from the weighted average score of investment characteristics organized into three broad themes: value, quality, and momentum. Martingale also generates an industry alpha to identify industries experiencing favorable or unfavorable economic and market conditions. The industry and stock alphas are combined to create the composite alpha score used in portfolio construction.

Peregrine Capital Management

Product Name:	Small Cap Value	Benchmark:	Russell 2000 Value
Product Inception Date:	January 1996	Investment Style:	Small-Cap Value
Firm Assets (6/30/24):	\$4.8 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$985 million	Investment Process:	Bottom-up
Product Location:	Minneapolis, MN	Expected # of Holdings:	90-110
Date Funded:	July 2000	Expected Ann. Turnover:	50-80%

Peregrine’s small-cap value investment process begins with their proprietary valuation analysis, which is designed to identify the small-cap value stocks most likely to outperform. The valuation analysis identifies the most underpriced securities on a sector-by-sector basis. The Firm analyzes sixty fundamental factors to identify the most relevant factors in each sector. The focus of the team’s fundamental research is to determine if one or more of the style’s “Value Buy Criteria” are present. These include resolvable short-term problems, unrecognized assets, take-over potential, fundamental undervaluation, and catalysts for change. The portfolio is well diversified by issue and sector weights are aligned closely to the benchmark allowing stock selection to drive performance.

Semi-Passive (Russell 1000) Managers

BlackRock Institutional Trust Company, N.A.

Product Name:	Alpha Tilts Low-Risk	Benchmark:	Russell 1000 Index
Product Inception Date:	December 1994	Investment Style:	Large-Cap Core
Firm Assets (6/30/24):	\$10.6 trillion	Fundamental/Quant:	Quantitative
Product Assets (6/30/24):	\$11.3 billion	Investment Process:	Multi-factor Systematic
Product Location:	San Francisco, CA	Expected # of Holdings:	200-700
Date Funded:	January 1995	Expected Ann. Turnover:	80-150%

BlackRock follows a structured and consistent investment process incorporating bottom-up stock selection that emphasizes relative value, earnings quality and sentiment while combining broader top-down thematic insights to generate risk controlled and consistent active returns. Research is incorporated through top-down thematic insights to capture macro views as well as through a program which utilizes big data techniques to capture alpha from the large volumes of unstructured data (text, internet search, and social media). Implementation costs are also considered when balancing return potential with risk-profile of trades.

Combined Funds

Public Equity Program: Investment Manager Summaries

Domestic Equity Program Managers

Semi-Passive (Russell 1000) Managers

J.P. Morgan Investment Management Inc.

Product Name:	Research Enhanced Index 100 Strategy	Benchmark:	Russell 1000 Index
Product Inception Date:	December 1988	Investment Style:	Large-Cap Core
Firm Assets (6/30/24):	\$3.2 trillion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$14.9 billion	Investment Process:	Bottom-up
Product Location:	New York, NY	Expected # of Holdings:	350-500
Date Funded:	January 1995	Expected Ann. Turnover:	< 65%

J.P. Morgan believes that superior stock selection is necessary to achieve excellent investment results. To accomplish this objective, the Firm uses fundamental research and a systematic valuation model. Analysts forecast earnings and dividends for the stock universe and enter these into a stock valuation model that calculates a dividend discount rate for each security. The stocks are ranked according to this valuation measure within their economic sectors. Stocks most undervalued are placed in the first quintile. The portfolio takes overweight positions in stocks in the first and second quintiles, while underweighting stocks in the fourth and fifth quintiles. In addition, the portfolio will closely approximate the sectors and style of the benchmark.

Passive (Russell 3000) Manager

BlackRock Institutional Trust Company, N.A.

Product Name:	Russell 3000 Equity Index	Benchmark:	Russell 3000 Index
Product Inception Date:	June 1995	Investment Style:	All-Cap Core
Firm Assets (6/30/24):	\$10.6 trillion	Fundamental/Quant:	N/A
Product Assets (6/30/24):	\$75.1 billion	Investment Process:	Optimized Indexing
Product Location:	San Francisco, CA	Expected # of Holdings:	2,800-3,000
Date Funded:	July 1995	Expected Ann. Turnover:	1-4%

For this passive account, BlackRock seeks to replicate the return of the Russell 3000 Index as closely as possible. Proprietary risk management and optimization tools are utilized to identify a portfolio with characteristics that closely match those of the Russell 3000 Index with less exposure to some of the less liquid stocks in the index.

Passive (Russell 1000) Manager

BlackRock Institutional Trust Company, N.A.

Product Name:	Russell 1000 Equity Index	Benchmark:	Russell 1000 Index
Product Inception Date:	January 1987	Investment Style:	Large-Cap Core
Firm Assets (6/30/24):	\$10.6 trillion	Fundamental/Quant:	N/A
Product Assets (6/30/24):	\$171.5 billion	Investment Process:	Index Replication
Product Location:	San Francisco, CA	Expected # of Holdings:	Approx. 1000
Date Funded:	November 2016	Expected Ann. Turnover:	2-4%

For this passive account, BlackRock seeks to match the total rate of return of the Russell 1000 Index. BlackRock aims to fully replicate the benchmark when managing against this index. BlackRock uses their proprietary risk management and optimization tools to help manage day-to-day activity in an attempt to keep transaction costs low.

Combined Funds

Public Equity Program: Investment Manager Summaries

Domestic Equity Program Managers

Passive (Russell 2000) Manager

BlackRock Institutional Trust Company, N.A.

Product Name:	Russell 2000 Equity Index	Benchmark:	Russell 2000 Index
Product Inception Date:	June 1997	Investment Style:	Small-Cap Core
Firm Assets (6/30/24):	\$10.6 trillion	Fundamental/Quant:	N/A
Product Assets (6/30/24):	\$78.0 billion	Investment Process:	Optimized Indexing
Product Location:	San Francisco, CA	Expected # of Holdings:	1,900-2,000
Date Funded:	October 2018	Expected Ann. Turnover:	10-15%

For this passive account, BlackRock seeks to replicate the return of the Russell 2000 Index as closely as possible. Proprietary risk management and optimization tools are utilized to identify a portfolio with characteristics that closely match those of the Russell 2000 Index with less exposure to some of the less liquid stocks in the index.

Combined Funds

Public Equity Program: Investment Manager Summaries

International Equity Program Managers

Active Developed Markets Managers

Acadian Asset Management LLC

Product Name:	Non-U.S. Equity	Benchmark:	MSCI World ex. USA Index
Product Inception Date:	January 1995	Investment Style:	Core
Firm Assets (6/30/24):	\$112.6 billion*	Fundamental/Quant:	Quantitative
Product Assets (6/30/24):	\$7.7 billion	Investment Process:	Multi-factor Systematic
Product Location:	Boston, MA	Expected # of Holdings:	200-1,000
Date Funded:	July 2005	Expected Ann. Turnover:	80-100%

*Includes \$1,350 million in model advisory contracts, where Acadian does not have trading authority

Acadian uses a quantitative process to rank their universe of 4,000 stocks by relative attractiveness. The process uses a wide range of factors including valuation, earnings quality, size, and price movements. Acadian also applies separate models to forecast how well each stock's region/industry peer group will perform relative to world equities. The stock and peer forecasts are combined to determine an overall relative return forecast. Country and sector weights fall out of the bottom-up stock selection process.

Columbia Threadneedle Investments

Product Name:	Global Developed – ex US Equity	Benchmark:	MSCI World ex USA Index
Product Inception Date:	December 2003	Investment Style:	Core/Quality
Firm Assets (6/30/24):	\$655.5 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$2.1 billion*	Investment Process:	Bottom-up
Product Location:	London, England, UK	Expected # of Holdings:	50-80
Date Funded:	March 2000**	Expected Ann. Turnover:	< 50%

*Includes all developed markets assets managed by this team and underpinned by a comparable investment strategy.

**Reflects SBI's initial funding date with Columbia Threadneedle predecessor firm IDS International.

Columbia Threadneedle Investments is a bottom-up, fundamental investor with a preference for companies with high and/or rising returns on capital and the ability to compound earnings at above market-average rates over the long-term. This research applies a long-term perspective, with efforts directed to understanding how industries will develop and companies will perform over the next three to five years and longer. Research draws on the regional equity capability at the Firm and is centered on understanding the source and the sustainability of a company's competitive advantage and its ability to maintain high returns.

Combined Funds

Public Equity Program: Investment Manager Summaries

International Equity Program Managers

Active Developed Markets Managers

Fidelity Institutional Asset Management LLC (FIAM)

Product Name:	International Growth	Benchmark:	MSCI World ex USA Index
Product Inception Date:	December 1995	Investment Style:	Growth
Firm Assets (6/30/24):	\$436 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$6.1 billion	Investment Process:	Bottom-up
Product Location:	Boston, MA	Expected # of Holdings:	100-150
Date Funded:	July 2005	Expected Ann. Turnover:	25-75%

The FIAM International Growth strategy is a core, growth-focused international equity strategy benchmarked to the MSCI World ex USA Index. The investment process combines active stock selection and regional asset allocation. Three portfolio managers construct regional sub-portfolios, selecting stocks based on Fidelity analysts' fundamental research as well as their own judgment and expertise. Final portfolio allocation to the regional portfolios is determined by the lead portfolio manager.

J.P. Morgan Investment Management Inc.

Product Name:	EAFE Plus	Benchmark:	MSCI World ex USA Index
Product Inception Date:	January 1997	Investment Style:	Quality/Growth
Firm Assets (6/30/24):	\$3.2 trillion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$12.8 billion	Investment Process:	Bottom-up
Product Location:	New York, NY	Expected # of Holdings:	70-100
Date Funded:	July 2005	Expected Ann. Turnover:	< 30%

J.P. Morgan's international equity process focuses on stock selection as the primary source of added value and seeks to build a portfolio diversified by both sector and region. Regional analyst teams generate local market insights and conduct research on companies, and a team of senior portfolio managers is responsible for constructing risk-controlled portfolios that capture the best thinking of the team.

Marathon Asset Management Limited

Product Name:	World ex U.S. Strategy	Benchmark:	MSCI World ex USA Index
Product Inception Date:	June 1997	Investment Style:	Core
Firm Assets (6/30/24):	\$38.3 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$29.6 billion*	Investment Process:	Bottom-up
Product Location:	London, England, UK	Expected # of Holdings:	300-400
Date Funded:	November 1993**	Expected Ann. Turnover:	10-20%

*This figure reflects the total AUM of Marathon's overall International Strategies. AUM in the subset of these managed against the MSCI World ex US Index was \$5.8 billion, with the remainder managed against the MSCI EAFE or MSCI ACWI ex US indices.

**Reflects SBI's initial funding date in Marathon's MSCI EAFE strategy with an earlier product inception date.

At the heart of Marathon's investment philosophy is the "capital cycle" approach to investment, based on the idea that the prospect of high returns will attract excessive capital and vice versa. Marathon believes that an assessment of how management responds to the forces of the capital cycle, (i.e. particularly whether they curtail investment when returns have been poor) and how they are incentivized, are critical to the investment outcome. The approach results in strong views versus the market and long holding periods of more than five years. The investment philosophy guides a focused team of investment generalists who seek investment opportunities in the growth and value universes and across the capitalization spectrum.

Combined Funds

Public Equity Program: Investment Manager Summaries

International Equity Program Managers

Passive Developed Markets Manager

State Street Global Advisors

Product Name:	MSCI World ex USA Index Strategy	Benchmark:	MSCI World ex USA Index
Product Inception Date:	October 1992	Investment Style:	Core
Firm Assets (6/30/24):	\$4.4 trillion	Fundamental/Quant:	N/A
Product Assets (6/30/24):	\$73.4 billion	Investment Process:	Index Replication
Product Location:	Boston, MA	Expected # of Holdings:	800-1000
Date Funded:	October 1992	Expected Ann. Turnover:	2-8%

State Street Global Advisors uses a replication strategy to construct the portfolio. Exchange-traded stock index futures are also used to minimize tracking error and trade cash flows in order to minimize transactions costs.

Active Emerging Markets Managers

Macquarie Investment Management Advisers

Product Name:	Emerging Markets Equity	Benchmark:	MSCI Emerging Markets Index
Product Inception Date:	September 2005	Investment Style:	Growth
Firm Assets (6/30/24):	\$610.3 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$8.3 billion	Investment Process:	Bottom-up
Product Location:	Philadelphia, PA	Expected # of Holdings:	90-130
Date Funded:	April 2017	Expected Ann. Turnover:	10-30%

Macquarie invests in companies with sustainable franchises that trade sufficiently below the team's intrinsic value estimate. The team's approach is grounded in bottom-up, fundamental analysis of individual companies, placed in the context of evolving secular trends in the global economy. The team defines a sustainable franchise as a business that is well-placed to capture secular growth opportunities, resistant to competitive pressures, and that demonstrates rising earnings power over the long-term. Macquarie tends to focus on mid/large-cap companies due to their competitive advantages and dominant market share, combined with greater market liquidity. Regarding valuation, the team takes a long-term perspective of what they feel the company will be worth based on a shared vision of its future.

Martin Currie Inc.

Product Name:	Global Emerging Markets	Benchmark:	MSCI Emerging Market Index
Product Inception Date:	October 2010	Investment Style:	Quality/Growth
Firm Assets (6/30/24):	\$21.0 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$7.2 billion	Investment Process:	Bottom-up
Product Location:	Edinburgh, Scotland, UK	Expected # of Holdings:	40-60
Date Funded:	April 2017	Expected Ann. Turnover:	< 30%

The Martin Currie Global Emerging Markets (GEMs) team aims to deliver long-term capital growth by investing in companies with exposure to developing economies. Based on a philosophy that the market frequently undervalues the long-term, value-creation potential of sustainable growth businesses, the team use fundamental research to identify high-quality companies with industry-leading profitability, robust balance sheets, and demonstrable growth potential.

Combined Funds

Public Equity Program: Investment Manager Summaries

International Equity Program Managers

Active Emerging Markets Managers

Morgan Stanley Investment Management Inc.

Product Name:	Global Emerging Markets Equity	Benchmark:	MSCI Emerging Markets Index
Product Inception Date:	November 1991	Investment Style:	Quality/Growth
Firm Assets (6/30/24):	\$1.5 trillion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$3.8 billion	Investment Process:	Top-Down/Bottom-up
Product Location:	New York, NY	Expected # of Holdings:	70-90
Date Funded:	January 2001	Expected Ann. Turnover:	30-50%

The Morgan Stanley Investment Management (MSIM) Emerging Markets Equity team seeks to own quality growth stocks in attractive countries and/or in compelling themes. The team conducts original fundamental and macro-thematic research and invests in companies with the potential to deliver strong, sustainable growth over the next two to three years. The team also seeks to identify countries where growth is likely to accelerate and avoid or underweight countries with significant macro risks.

Pzena Investment Management LLC

Product Name:	Emerging Markets Focused Value	Benchmark:	MSCI Emerging Markets Index
Product Inception Date:	January 2008	Investment Style:	Value
Firm Assets (6/30/24):	\$64.1 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$6.4 billion	Investment Process:	Bottom-up
Product Location:	New York, NY	Expected # of Holdings:	40-80
Date Funded:	April 2017	Expected Ann. Turnover:	20-40%

Pzena follows a deep value approach to investing in Emerging Markets. As such, they focus on companies that are underperforming their historically demonstrated earnings power. Pzena applies fundamental research to these companies to determine whether the problems that caused the earnings shortfall are temporary or permanent. Using a proprietary screening tool, Pzena focuses research on the cheapest 20% of their universe. The subsequent decision to dedicate further research resources to evaluate a given security is made by the four co-portfolio managers who make an initial judgment as to whether the causes of the under-valuation are likely temporary or permanent, and whether the research process is likely to reasonably forecast the company's normalized earnings power.

Combined Funds

Public Equity Program: Investment Manager Summaries

International Equity Program Managers

Active Emerging Markets Managers

The RockCreek Group LLC

Product Name:	Emerging Markets Equity	Benchmark:	MSCI Emerging Markets Index
Product Inception Date:	August 2009	Investment Style:	Core/Fund-of-Funds
Firm Assets (6/30/24):	\$17.5 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$329 million	Investment Process:	Top-down/Bottom-up
Product Location:	Washington, D.C.	Expected # of Holdings:	300-500
Date Funded:	April 2017	Expected Ann. Turnover:	30-40%

RockCreek's Emerging Markets Equity strategy utilizes an actively managed all-cap approach in which their top-down views drive country and sector selection. Sub-sector and issue selection is managed by 15-17 local investment teams via a fund-of-funds structure that provides on-the-ground stock picking talent to drive security selection. The emerging markets investment team then adjusts the bottom-up derived portfolio using an overlay strategy to reflect top-down views on country exposures and betas. RockCreek's local investment teams are located in the markets in which they invest, which tends to result in a focus on small/mid-cap companies. RockCreek's location in Washington, D.C. supports their ability to interact with policy makers, economists and strategists that help define their top-down views and themes.

Passive Emerging Markets Manager

State Street Global Advisors

Product Name:	MSCI Emerging Markets Index Strategy	Benchmark:	MSCI Emerging Markets Index
Product Inception Date:	December 2011	Investment Style:	Core
Firm Assets (6/30/24):	\$4.4 trillion	Fundamental/Quant:	N/A
Product Assets (6/30/24):	\$52.2 billion	Investment Process:	Optimized Indexing
Product Location:	Boston, MA	Expected # of Holdings:	1100-1500
Date Funded:	January 2012	Expected Ann. Turnover:	5-15%

State Street Global Advisors (SSGA) manages an emerging markets equity index portfolio designed to track the Morgan Stanley Capital International MSCI Emerging Markets Index. SSGA uses an optimized strategy to construct the portfolio. Exchange traded stock index futures are also used to minimize tracking error, obtain exposure where local access is inaccessible, and to trade cash flows in order to minimize transaction costs.

Combined Funds

Public Equity Program: Investment Manager Summaries

International Equity Program Managers

Opportunistic Investment Strategy - ACWI ex U.S. Manager

EARNEST Partners LLC

Product Name:	EARNEST Partners International	Benchmark:	MSCI AWCI ex US Index
Product Inception Date:	May 1999	Investment Style:	Core
Firm Assets (6/30/24):	\$33.1 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$5.7 billion	Investment Process:	Bottom-up
Product Location:	Atlanta, GA	Expected # of Holdings:	50-80
Date Funded:	January 2021	Expected Ann. Turnover:	20-30%

EARNEST Partners is a fundamental, bottom-up investment manager that utilizes a proprietary screen to identify fundamental characteristics that predispose a company to outperformance based on the industry in which it operates. The fundamental characteristics fall into the following six categories – valuation measures, operating trends, market trends, growth measures, profitability measures and macroeconomic measures. The team’s fundamental review generally includes conversations with the company’s management team and industry specialists, a rigorous review of the company’s financial reports, deep analysis of industry and company-specific studies, as well as independent field research. They control risk using a statistical approach designed to measure and minimize the prospects of substantially underperforming the benchmark. The portfolio is diversified across industry groups and geographic regions.

Opportunistic Investment Strategy - China A-Share Manager

EARNEST Partners LLC

Product Name:	EARNEST Partners China A-share	Benchmark:	MSCI China A Index
Product Inception Date:	April 2013	Investment Style:	Dedicated China A-share
Firm Assets (6/30/24):	\$33.1 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$411.0 million	Investment Process:	Bottom-up
Product Location:	Atlanta, GA	Expected # of Holdings:	15-30
Date Funded:	January 2021	Expected Ann. Turnover:	15-20%

EARNEST Partners is a fundamental, bottom-up investment manager that utilizes a proprietary screen to identify fundamental characteristics that predispose a company to outperformance based on the industry in which it operates. The fundamental characteristics fall into the following six categories – valuation measures, operating trends, market trends, growth measures, profitability measures and macroeconomic measures. Fundamental review generally includes conversations with the company’s management team and industry specialists, a rigorous review of the company’s financial reports, deep analysis of industry and company-specific studies, as well as independent field research. They control risk using a statistical approach designed to measure and minimize the prospects of substantially underperforming the benchmark. The portfolio invests exclusively in the A-shares of Chinese-listed companies and is diversified across industry groups.

Combined Funds

Public Equity Program: Investment Manager Summaries

International Equity Program Managers

Currency Overlay Manager

Record Currency LLC

Product Name:	Currency Overlay	Benchmark:	N/A
Product Inception Date:	July 1983	Investment Style:	Active Currency Hedging
Firm Assets (6/30/24):	\$101.9 billion	Fundamental/Quant:	Quantitative
Product Assets (6/30/24):	\$16.7 billion	Investment Process:	Systematic
Product Location:	Windsor, England, UK	Expected # of Holdings:	N/A
Date Funded:	October 2020	Expected Ann. Turnover:	4-8x hedgeable currency exposure

Record Currency's overlay program aims to reduce currency risk embedded in the international equity exposures of the SBI's international equity portfolio and to add value over a mid-term currency cycle. In order to protect against currency losses, the program uses a systematic investment process to adjust strategy hedge ratios in response to currency movements. Subject to the hedge ratios in place and the costs of their adjustments, the program will generate positive value when the U.S. dollar is strengthening vis-à-vis hedged currencies and will generate negative- to flat-value when the U.S. dollar is weakening. Periodic resetting of the program positions and/or their adjustment as part of risk management oversight contribute to an asymmetric payoff profile over time.

Combined Funds

Public Equity Program: Investment Manager Summaries

Global Equity Program Managers

Ariel Investments LLC

Product Name:	Ariel Global Product	Benchmark:	MSCI ACWI Index (net)
Product Inception Date:	December 2011	Investment Style:	Global Equity
Firm Assets (6/30/24):	\$13.9 billion*	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$2.0 billion	Investment Process:	Bottom-up
Product Location:	New York, NY	Expected # of Holdings:	Approx. 60
Date Funded:	January 2021	Expected Ann. Turnover:	25-40%

*Assets under management as of June 30, 2024, include \$1.48 billion for Ariel Alternatives, a subsidiary of Ariel Investments, which reflects aggregate commitments and excludes fund specific leverage.

The Ariel Global Equity Team’s investment philosophy is biased towards owning undervalued, out-of-favor, quality businesses whose earnings power is not yet reflected in valuations; and strives to capitalize on such price dislocations and short-term market inefficiencies to drive long-term returns. Risk management is embedded in every step of the investment process—regardless of the market backdrop. The seasoned team of global sector analysts specialize in bottom-up fundamental research and tap a variety of informational sources to form their own proprietary view of an industry and business. They consider a range of outcomes for a company’s earnings potential, focus on identifying investment controversies and look for discernable investment catalysts signaling a significant inflection in the trajectory of the business, industry, economy, and/or geopolitical situation. Alpha is generated by having a correct, non-consensus point of view.

Baillie Gifford Overseas Limited

Product Name:	Long-Term Global Growth	Benchmark:	MSCI ACWI Index (net)
Product Inception Date:	February 2004	Investment Style:	Growth
Firm Assets (6/30/24):	\$283.7 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$46.7 billion	Investment Process:	Bottom-up
Product Location:	Edinburgh, Scotland, UK	Expected # of Holdings:	30-60
Date Funded:	January 2021	Expected Ann. Turnover:	10-20%

Baillie Gifford’s Long Term Global Growth (LTGG) strategy is purely stock-driven, investing in unconstrained global equity, with a focus on taking committed, long-term holdings in exceptional growth companies from around the world. Investing is driven by in-depth analyst research, team debate and a framework of questions designed to consistently identify the most attractive investment opportunities. The team places emphasis on the use of alternative sources of information such as academia. Portfolio holding sizes are based purely on the magnitude of the potential upside and the associated level of conviction.

Martin Currie Inc.

Product Name:	Global Long-Term Unconstrained	Benchmark:	MSCI ACWI Index (net)
Product Inception Date:	June 2016	Investment Style:	Growth
Firm Assets (6/30/24):	\$21.0 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$1.9 billion	Investment Process:	Bottom-up
Product Location:	Edinburgh, Scotland, UK	Expected # of Holdings:	20-40
Date Funded:	January 2021	Expected Ann. Turnover:	< 25%

The Martin Currie Global Long-Term Unconstrained (GLTU) team aims to create a portfolio with exposure to sustainable quality growth stocks that can provide attractive, long-term risk adjusted alpha. The Martin Currie team believes that a combination of upside capture and limited negative exposure in downward markets will compound over time to generate a real rate of return for investors, as well as a relative rate of return in excess of the wider equity market. In order to deliver such expected outcomes, GLTU takes a long-term, unconstrained investment approach.

Combined Funds

Fixed Income Program

Fixed Income Program

The Combined Funds have a 25% target allocation to fixed income, which is invested across four segments: core/core plus bonds, return-seeking, Treasury protection, and laddered bond + cash. Each segment within the Fixed Income Program is described in the respective sections of this annual report.

Allocation

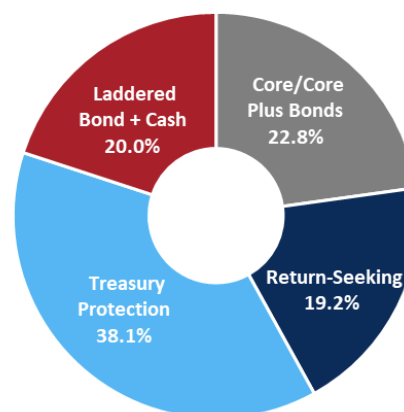
The asset allocation target and actual weights within the Fixed Income Program as of June 30, 2024, are listed in Figure 29.

Figure 29. Fixed Income Program Policy Allocation and Asset Mix as of June 30, 2024

Segment	Target Allocation	Actual	
		Asset Mix	Assets (in Millions)
Core/Core Plus Bonds*	40%	23.6%	\$5,540.7
Return-Seeking*		19.0%	\$4,462.5
Treasury Protection	40%	37.7%	\$8,862.0
Laddered Bond + Cash	20%	19.8%	\$4,651.3
Fixed Income Program	100%	100%	\$23,516.4

*Core/Core Plus Bonds and Return-Seeking have a combined target weight of 40%.

Fixed Income Asset Mix as of June 30, 2024



Benchmark

The benchmarks used to monitor the aggregate returns of each segment are listed below. The Fixed Income Program composite return consists of the respective segment benchmarks weighted by the target allocation to each segment.

Asset Class Segment	Benchmark
Core/Core Plus Bonds	Bloomberg U.S. Aggregate
Return-Seeking	Bloomberg U.S. Aggregate
Treasury Protection	Bloomberg 5+ Year Treasury
Laddered Bond + Cash	ICE BofA 3-Month T-Bill

Performance

Figure 30 provides the performance of the Fixed Income Program as of June 30, 2024. The return-seeking segment, funded in 2021, has only three years of performance history.

Figure 30. Fixed Income Performance (%) For Periods Ending June 30, 2024

Segment/Benchmark	Annualized Performance			
	1 Year	3 Year	5 Year	10 Year
Core/Core Plus Bonds	3.6	-2.8	0.5	1.9
Core/Core Plus Bonds Benchmark	2.6	-3.0	-0.2	1.3
Return-Seeking	7.1	-0.4	NA	NA
Return-Seeking Benchmark	2.6	-3.0	NA	NA
Treasury Protection	-1.6	-6.6	-2.3	NA
Treasury Protection Benchmark	-1.7	-6.6	-2.3	NA
Laddered Bond + Cash	5.5	3.0	2.1	1.6
Laddered Bond + Cash Benchmark	5.4	3.0	2.2	1.5
Fixed Income	2.7	-2.8	0.5	2.1
Fixed Income Benchmark	1.5	-3.2	-0.1	1.5

Combined Funds

Fixed Income Program: Core/Core Plus Bonds

Core/Core Plus Bonds

The core/core plus bonds segment of the Fixed Income Program invests across the broad fixed income market on behalf of the Combined Funds.

As of June 30, 2024, the Combined Funds core/core plus bonds segment totaled over \$5.3 billion.

Objective

The objective of the core/core plus bonds segment is to provide current income, to serve as a deflation hedge, and to provide diversification at the total fund level.

The SBI constrains the risk of the core/core plus managers' portfolios to help ensure the segment meets its objectives. Specifically, the managers are constrained in terms of overall portfolio duration relative to the benchmark and the extent to which they may invest in lower credit quality securities.

The core/core plus managers successfully fulfilled their long-term risk objectives during fiscal year 2024. The managers constructed portfolios consistent with their stated investment approaches and maintained appropriate levels of interest rate duration and overall portfolio credit quality.

Management Structure

The SBI uses active management for both the core and core plus mandates.

— Core Bonds Strategy:

At the end of fiscal year 2024, approximately 43% of the total core/core plus bonds segment was invested in the core bonds strategy, which was managed by two

external investment managers.

This segment invests in high-quality fixed income securities across all sectors of the bond market. Managers seek to add value primarily through issue selection and sector allocation rather than actively managing the portfolio's interest rate exposure. Portfolios are constrained to a +/- 20% range around the benchmark's duration. Managers have authority to invest a limited portion of their portfolios in bonds rated below investment grade in non-U.S. dollar denominated securities.

Each manager seeks to outperform its benchmark, the Bloomberg U.S. Aggregate Bond Index.

— Core Plus Bonds Strategy:

At the end of fiscal year 2024, approximately 57% of the total core/core plus bonds segment was invested in the core plus bonds strategy, managed by three external managers.

This segment also invests primarily in high-quality fixed income securities, but managers are given additional flexibility to allocate a larger portion of their portfolios to below investment grade debt, including both dollar- and non-dollar-denominated debt. The managers use this additional authority on an opportunistic basis. The managers vary in the emphasis they place on active duration management and in the way they

approach security selection and sector weighting decisions. Each manager seeks to outperform its benchmark, the Bloomberg U.S. Aggregate Bond Index.

In keeping with the objective of utilizing the core/core plus bonds segment as a deflation hedge, the core plus managers are constrained regarding the duration of their portfolios. This requirement is designed to prevent the dilution of the deflation hedge of the total segment from an excessively short-duration position. In addition, the duration constraint helps to avoid excess performance variability relative to the benchmark. The SBI constrains the duration range of the core plus portfolios to a band of plus or minus 20% of the duration of the index.

Investment Manager Summaries

A description of each core/core plus manager's investment approach is included in the **Investment Manager Summaries** section beginning on page 67.

Investment Performance

The goal of the core/core plus bonds segment is to outperform its asset class benchmark, the Bloomberg U.S. Aggregate Bond Index. The individual performance of each manager is also measured against this benchmark. In aggregate, the core/core plus bonds segment outperformed the Bloomberg U.S. Aggregate Bond Index by 1.0 percentage points in fiscal year 2024, and the segment outperformed the benchmark

Combined Funds

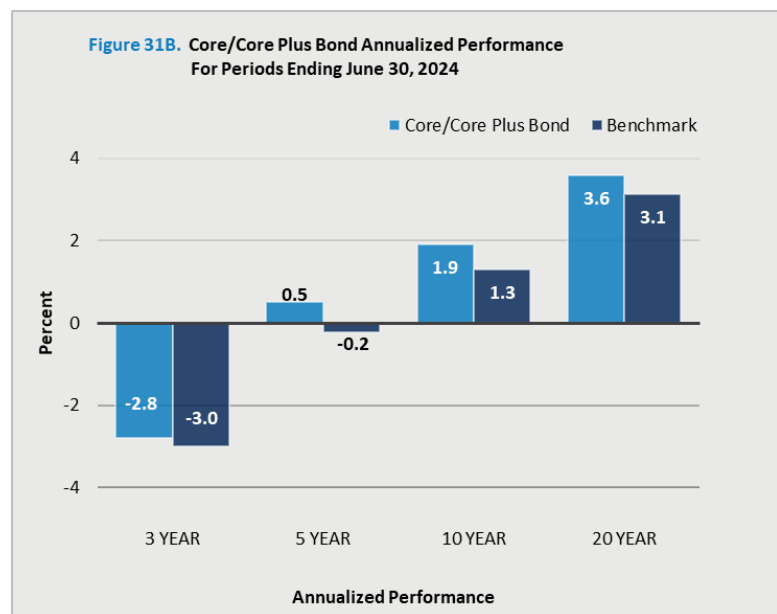
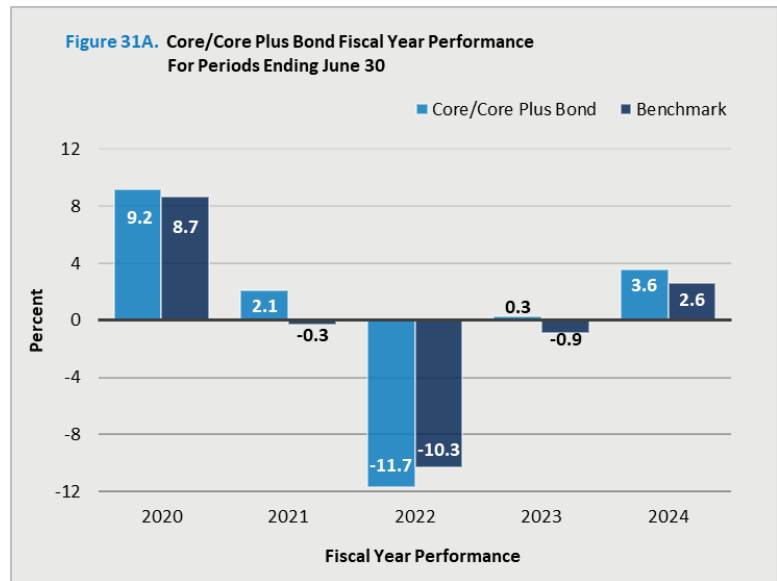
Fixed Income Program: Core/Core Plus Bonds

over the trailing three-, five-, 10- and 20-year periods.

During the most recent fiscal year, performance relative to the benchmark was supported by managers' overweight allocation to corporate bonds and securitized credit. All five managers outperformed the benchmark.

Figures 31A and 31B provide the historical performance results for the core/core plus bonds segment. Individual results for each of the core and core plus managers are shown in Figure 32 on the following page.

The aggregate portfolio sector weights and portfolio characteristics for the core/core plus bonds segment as of June 30, 2024, are provided on the following page in Figures 33 and 34, respectively.



Combined Funds

Fixed Income Program: Core/Core Plus Bonds

Figure 32. Core/Core Plus Bond Manager Performance (%) For Periods Ending June 30, 2024

Manager Strategy/Benchmark	Annualized Performance				Market Value ¹ (in Millions)
	1 Year	3 Year	5 Year	10 Year	
Core Bond					
Dodge & Cox	4.7	-1.4	1.4	2.4	\$1,219.8
BlackRock Financial Management	3.2	-2.8	0.1	1.6	\$1,174.5
<i>Bloomberg U.S. Aggregate</i>	2.6	-3.0	-0.2	1.3	
Core Plus Bond					
Goldman Sachs Asset Management	3.2	-2.8	0.2	1.7	1,027.6
Neuberger Investment Management	4.4	-2.6	0.7	1.9	1,108.1
Western Asset Management	2.5	-4.5	-0.2	1.9	1,010.5
<i>Bloomberg U.S. Aggregate</i>	2.6	-3.0	-0.2	1.3	
Core/Core Plus Bond²	3.6	-2.8	0.4	1.9	\$5,540.7
<i>Core/Core Plus Bond Benchmark³</i>	2.6	-3.0	-0.2	1.3	

¹Market value includes assets of SIF Funds.
²In October 2020, Core Bond allocation was re-structured from active and semi-passive portfolios to Core and Core Plus portfolios.
³Benchmark has been the Bloomberg U.S. Aggregate Bond Index since July 1994.

Figure 33. Core/Core Plus Bond Sector Weights as of June 30, 2024

Market Strategy	Core Managers %	Core Plus Managers %	Aggregate Core/Core Plus Bond Segment %	Bloomberg U.S. Aggregate Bond Benchmark %
Treasury	21.2	12.8	16.4	43.1
Government-Related	2.6	4.6	3.7	4.2
Corporate	29.9	35.0	32.7	24.5
U.S. Mortgage	35.7	30.1	32.5	25.6
Commercial Mortgage	1.8	6.1	4.3	1.6
Asset Backed	6.6	10.9	9.1	0.5
Municipal	0.1	-	-	0.5
Other	2.1	0.5	1.3	-

Notes: May not equal 100% due to rounding. Sector categorizations are customized for indicative purposes and may not conform exactly to the sector rules of the Bloomberg fixed income indices.
Source: Factset

Figure 34. Core/Core Plus Bond Characteristics as of June 30, 2024

Portfolio Characteristics	Core Managers	Core Plus Managers	Aggregate Core/Core Plus Bond Segment	Bloomberg U.S. Aggregate Bond Benchmark
Average Quality	A1	A1	A1	A2
Average Yield to Maturity (%)	5.8%	6.0%	5.9%	5.0%
Effective Duration ¹ (years)	6.3	6.5	6.4	6.1
Weighted Average Life ² (years)	9.6	10.6	10.2	8.6

¹Measures the interest rate sensitivity of a bond. It is the approximation of the percentage price change of the bond per 100 basis point increase or decrease in prevailing market interest rates. Effective duration takes into consideration how the cashflows of the bonds change when interest rates change. This measure is most appropriate for bonds (and portfolios) with optionality, such as callable bonds and mortgage bonds.
²The Weighted Average Life (WAL) of a bond is the average number of years for which each dollar of unpaid principal of a bond remains outstanding.
Source: Factset

Combined Funds

Fixed Income Program: Return-Seeking Fixed Income

Return-Seeking Fixed Income

The return-seeking fixed income segment was funded in December 2020.

As of June 30, 2024, the return-seeking fixed income segment had a market value of approximately \$4.5 billion.

Objective

The objective of the return-seeking fixed income segment is to generate incremental total return and provide interest rate risk mitigation through an emphasis on diversified credit exposure.

The return-seeking fixed income segment includes dedicated single-sector mandates (securitized credit, emerging markets debt, high-yield corporate bonds) and blended mandates that are designed to allow managers to allocate investments across a range of sectors (credit plus, multi-asset credit, and multi-sector opportunistic).

During fiscal year 2024, the managers constructed portfolios consistent with their stated investment approaches and maintained appropriate levels of diversification.

Management Structure

Nine investment managers actively manage the return-seeking fixed income segment with portfolios that range in size from approximately \$320 million to over \$921 million.

Investment Manager Summaries

A description of each manager's investment approach is included in the **Investment Manager Summaries** section beginning on page 69.

Investment Performance

The goal of the return-seeking fixed income segment is to outperform its asset class benchmark, the Bloomberg U.S. Aggregate Index. Each manager is assigned a specific benchmark and performance objective consistent with the manager's stated investment approach and/or sector emphasis.

Manager benchmarks are identified in Figure 35, along with returns and market value information as of June 30, 2024.

The aggregate portfolio sector weights and portfolio characteristics as of June 30, 2024, are provided on the following page in Figures 36 and 37, respectively.

Manager Strategy/Benchmark	Annualized Performance		Market Value (in Millions)
	1 Year	3 Year	
Credit Plus			
Columbia	4.9	-2.6	\$892.4
PIMCO	5.7	-1.8	\$921.3
<i>Credit Plus Benchmark¹</i>	5.4	-2.0	
Multi-Asset Credit			
Payden & Rygel	9.8	1.4	\$320.3
PGIM Fixed Income	10.5	1.5	\$372.6
<i>Multi-Asset Credit Benchmark²</i>	10.1	1.6	
High Yield Credit			
KKR	11.0	2.3	\$343.1
Oaktree	10.7	2.1	\$337.7
<i>High Yield Credit Benchmark³</i>	10.4	1.7	
Opportunistic and Other			
Ashmore (EM Market Debt)	4.4	-6.0	\$324.2
<i>Emerging Market Blended Debt Total Return⁴</i>	4.9	-2.9	
BlackRock (Opportunistic)	6.6	1.1	522.8
TCW (Securitized Credit)	7.3	2.2	428.1
<i>ICE BofA US 3 Month T-Bill</i>	5.4	3.0	
Return-Seeking Fixed Income	7.1	-0.4	\$4,462.5
<i>Bloomberg U.S. Aggregate Index</i>	2.6	-3.0	

¹Credit Plus Benchmark represents: 40% Bloomberg U.S. Corporate Index, 30% Bloomberg U.S. Mortgage-Backed Securities Index, 20% BofA ML High Yield BB-B Cash Pay Constrained Index, and 10% JPM EMBI Global Diversified Index.

²Multi-Asset Credit Benchmark represents: 1/3 BofA ML High Yield BB-B Cash Pay Constrained Index, 1/3 Credit Suisse Leverage Loan Index, and 1/3 JPMorgan EMBI Global Diversified Index.

³High Yield Credit Benchmark is the ICE BofA High Yield Cash Pay Constrained Index.

⁴Emerging Market Blended Debt Benchmark represents 50% JPMorgan EMBI Global Diversified Index and 50% JP Morgan GBI-EM Global Diversified Index.

Combined Funds

Fixed Income Program: Return-Seeking Fixed Income

Figure 36. Return-Seeking Sector Weights as of June 30, 2024

Market Strategy	Credit Plus Managers %	Multi-Asset Credit Managers %	High Yield Credit Managers %	Opportunistic/ Other Managers %	Aggregate Return-Seeking Segment %	Bloomberg U.S. Aggregate Bond Benchmark %
ABS	6.7	8.8	-	13.7	8.1	0.5
Agency MBS	19.4	1.7	-	5.4	9.6	25.6
Bank Loan	1.6	21.7	9.9	-	5.5	-
CMBS	2.5	2.3	-	5.2	2.9	1.6
Corporate	45.7	29.5	85.8	22.4	42.3	24.5
Municipal	1.1	-	-	0.1	0.5	0.5
Non US Govt (EMD)	6.7	29.7	-	23.6	14.2	2.7
Non Agency MBS	13.8	-	-	5.6	7.2	-
US Govt/Cash	1.8	5.7	4.0	10.3	5.3	44.6
Other	0.7	0.5	-	13.7	4.5	-

Note: May not equal 100% due to rounding.
Sector categorizations are customized for indicative purposes and may not exactly conform to the sector rules of the Bloomberg Fixed Income Indices.
Source: Factset

Figure 37. Return-Seeking Characteristics as of June 30, 2024

Market Sector	Credit Plus Managers	Multi-Asset Credit Managers	High Yield Credit Managers	Opportunistic/ Other Managers	Aggregate Return-Seeking Segment	Bloomberg U.S. Aggregate Bond Benchmark
Average Quality	A3	Ba3	B2	Baa1	Baa2	Aa2
Average Yield to Maturity (%)	6.4%	8.1%	7.9%	6.3%	6.9%	5.0%
Effective Duration ¹ (years)	6.2	3.1	2.9	3.1	4.3	6.1
Weighted Average Life ² (years)	9.4	6.4	4.2	5.8	7.1	8.6

¹Measures the interest rate sensitivity of a bond. It is the approximation of the percentage price change of the bond per 100 bp increase or decrease in prevailing market interest rates. Effective duration takes into consideration how the cashflows of the bonds change when interest rates change. This measure is most appropriate for bonds (and portfolios) with optionality, such as callable bonds and mortgage bonds.
²The Weighted Average Life (WAL) of a bond is the average number of years for which each dollar of unpaid principal of a bond remains outstanding.
Source: Factset

Combined Funds

Fixed Income Program: Treasury Protection

Treasury Protection

The Treasury protection segment was funded in 2018. As of June 30, 2024, the Treasury protection segment had a market value of \$8.9 billion.

Objectives

The primary objective of the Treasury protection segment is to provide downside protection during periods of significant equity drawdowns, to protect the portfolio against deflation risk, and to act as a hedge to the credit risk inherent in other segments of the Fixed Income Program.

The SBI constrains the amount of active risk that managers within the Treasury protection segment may take to ensure that the segment consistently fulfills its roles of diversification and downside protection against equity market shocks.

Management Structure

The managers must remain within +/- 0.5 years of the overall benchmark duration (currently 10.5 years). Managers may hold out-of-benchmark Treasury securities with maturities of less than five years. Managers may also invest in U.S. Agencies, dollar-denominated supranational debt, and Treasury Inflation-Protected Securities (TIPS) on a limited basis as they seek to outperform the benchmark.

Investment Manager Summaries

A description of each Treasury manager's investment approach is included in the **Investment Manager Summaries** section on page 73.

Investment Performance

The Treasury protection segment is benchmarked to the Bloomberg Treasury 5+ Year Index.

Each manager has been given a modest risk budget and the objective to modestly outperform the Bloomberg Treasury 5+ Year Index total return over time. Individual manager performance for fiscal year 2024 and longer time periods is shown in Figure 38.

During the fiscal year, the Treasury protection segment returned -1.6%, slightly above the benchmark return of -1.7% for the same period. Over the trailing three-year and five-year periods, the segment's performance has matched the benchmark.

Portfolio characteristics for the Treasury protection segment as of June 30, 2024, are shown in Figure 39.

Figure 38. Treasury Protection Manager Performance (%) For Periods Ending June 30, 2024

Manager Strategy/Benchmark	Annualized Performance			Market Value (in Millions)
	1 Year	3 Year	5 Year	
BlackRock Financial Management	-1.7	-6.7	-2.4	\$2,946.2
Goldman Sachs Asset Management	-1.5	-6.6	-2.2	\$2,665.0
Neuberger Investment Management	-1.5	-6.6	-2.2	\$3,250.8
<i>Bloomberg 5+ Year U.S. Treasury Index</i>	-1.7	-6.6	-2.3	
Treasury Protection	-1.6	-6.6	-2.3	\$8,862.0
<i>Bloomberg 5+ Year U.S. Treasury Index</i>	-1.7	-6.6	-2.3	

Figure 39. Treasury Protection Characteristics as of June 30, 2024

Portfolio Characteristics	Aggregate Treasury Protection Segment	Protection Benchmark ¹
Effective Duration (years)	10.5	10.5
Convexity	1.7	1.7
Coupon Rate (%)	3.1	3.1
Yield to Maturity (%)	4.7	4.4
Option Adjusted Spread (basis points)	3.0	1.0

¹The Treasury Protection benchmark is the Bloomberg 5+ Year U.S. Treasury Index.
Source: Factset

Combined Funds

Fixed Income Program: Laddered Bond + Cash

Laddered Bond + Cash

The laddered bond + cash segment was formed in 2020 with the addition of the laddered bond strategy to the existing cash strategy. As of June 30, 2024, the total market value of the laddered bond + cash segment was approximately \$4.7 billion.

Objective

The laddered bond + cash segment is used to meet the liquidity requirements of the Combined Funds, including monthly pension payments for the retirement systems and capital calls from the Funds' private markets program. The cash strategy also invests the unspent cash of the Combined Fund's public equity and fixed income managers. A portion of the laddered bond + cash portfolio is invested in the State's Certificate of Deposit (CD) program, described on page 66.

The SBI measures the performance of the laddered bond and cash strategies against specific benchmarks, based upon the guidelines for each strategy. The cash strategy is measured against the iMoneyNet All Taxable Money Fund Average, and the laddered bond strategy is measured against the ICE BofA 3-Month T-Bill benchmark. Overall, the aggregate pool is measured against the ICE BofA 3-Month T-Bill benchmark for reporting purposes.

Management Structure

The laddered bond + cash segment is an actively managed program.

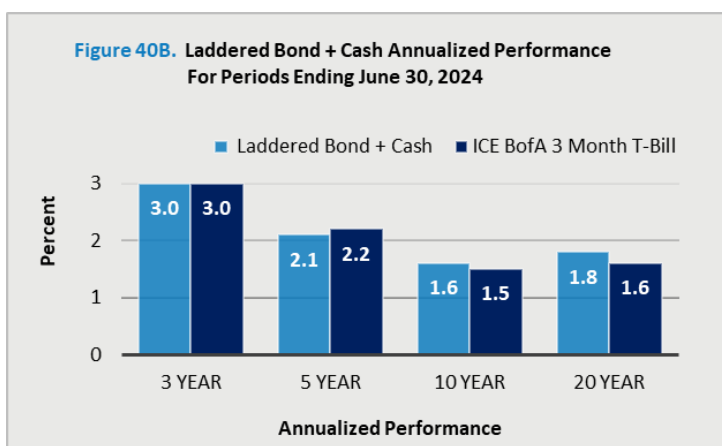
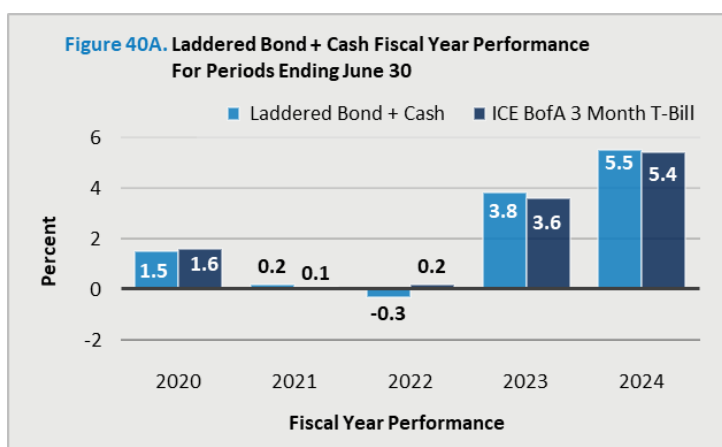
— The *laddered bond* strategy is managed by Neuberger Berman and Goldman Sachs. The SBI provides the managers with specific maturity targets. Each manager invests the funds in high-quality fixed income securities in a laddered maturity style such that the portfolio's maturities are sufficient to meet the provided maturity targets. At least 50% of the portfolio is required to be invested in U.S. Treasury and Agency securities. A Nationally Recognized Statistical Rating Organization must rate all other securities at least "A" or higher. Finally, the managers must keep the duration of their portfolios within +/- 0.25 years of the

prevailing maturity schedule.

— The *cash* strategy is managed by State Street Global Advisors. This portfolio is invested in high-quality, liquid, short-term investments, similar to a money market fund. Allowable investments include U.S. Treasury and Agency issues, repurchase agreements, commercial paper, and certificates of deposit. The manager must keep the weighted average maturity of the portfolio at or below 60 days.

Investment Manager Summaries

A description of each manager's investment approach is included in the **Investment Manager Summaries** section on page 74.



Combined Funds

Fixed Income Program: Laddered Bond + Cash

Investment Performance

Historical returns provided in Figures 40A and 40B (on the previous page) represent the performance of the aggregate laddered bond + cash segment.

Individual manager performance and portfolio market values are provided in Figure 41.

In fiscal year 2024, the laddered bond + cash segment slightly outperformed the ICE BofA 3-Month T-Bill benchmark and closely tracked the benchmark over longer periods.

Combined Funds Cash Related Programs

Certificate of Deposit Program

The SBI internally manages a Certificate of Deposit (CD) program that purchases CDs from Minnesota financial institutions. The return the SBI receives is based on CD rates quoted in the national market. The SBI's CD program provides a reliable source of capital to Minnesota financial institutions, regardless of size, many of which do not have access to the national CD market. The SBI manages the program so that no single institution is favored in the allocation of invested funds. The CDs issued by the CD program are held exclusively in a segregated account within the Combined Funds cash pool.

As of June 30, 2024, the amount on deposit with the financial institutions via the CD program totaled \$62.1 million.

During fiscal year 2024, the SBI purchased a total of \$196.5 million of CDs from Minnesota financial institutions.

Figure 41. Laddered Bond + Cash Manager Performance (%) For Periods Ending June 30, 2024

Manager Strategy/Benchmark	Annualized Performance				Market Value (in Millions)
	1 Year	3 Year	5 Year	10 Year	
Laddered Bond					
Neuberger Berman	5.4	2.8	NA	NA	\$1,651.9
Goldman Sachs Asset Management	5.4	2.9	NA	NA	1,653.6
<i>ICE BofA 3 Month T-Bill</i>	5.4	3.0	NA	NA	
Cash					
State Street Global Advisors	5.6	3.3	2.3	1.6	1,283.7
<i>iMoneyNet All Taxable Money Fund Average</i>	5.1	2.9	2.0	1.3	
CD Repo					
SBI Internal Portfolio	5.6	3.2	2.3	1.7	62.1
<i>ICE BofA 3 Month T-Bill</i>	5.4	3.0	2.2	1.5	
Laddered Bond + Cash					
Laddered Bond + Cash	5.5	3.0	2.1	1.6	\$4,651.3
<i>Laddered Bond + Cash Benchmark¹</i>	5.4	3.0	2.2	1.5	

¹Benchmark is the ICE BofA 3 Month T-Bill.

Securities Lending

The SBI participates in a Securities Lending Program in which securities held by the SBI on behalf of the Combined Funds are loaned to banks and securities dealers for a daily fee. These loans are fully collateralized.

Currently, the SBI's securities lending activity is undertaken by the SBI's master custodian bank, State Street Corporation. During fiscal year 2024, the securities lending program generated additional income for the retirement systems of approximately \$17.4 million.

Combined Funds

Fixed Income Program: Investment Manager Summaries

Fixed Income Program Managers

Core/Core Plus Bond Managers

BlackRock Financial Management Inc.

Product Name:	U.S. Core Fixed Income	Benchmark:	Bloomberg U.S. Aggregate
Product Inception Date:	March 1996	Investment Style:	Active Core Bond
Firm Assets (6/30/24):	\$10.6 trillion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$11.7 billion	Investment Process:	Top-down/Bottom-up
Product Location:	New York, NY	Expected # of Holdings:	600-1200
Date Funded:	April 1996	Expected Ann. Turnover:	50-300%

BlackRock employs a team approach where a top-down multi-sector asset allocation framework is combined with sector specialists and traders with responsibility for relative value sub-sector rotation and security selection. The team seeks to add value through managing portfolio duration relative to the benchmark, relative value sector/sub-sector rotation and security selection, rigorous quantitative analysis of the valuation of each security and of the portfolio as a whole, intense credit analysis and review, and the judgment of experienced portfolio managers.

Dodge & Cox

Product Name:	Core Fixed Income	Benchmark:	Bloomberg U.S. Aggregate
Product Inception Date:	January 1978	Investment Style:	Active Core Bond
Firm Assets (6/30/24):	\$383.8 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$110.0 billion	Investment Process:	Bottom-up
Product Location:	San Francisco, CA	Expected # of Holdings:	150-250
Date Funded:	February 2000	Expected Ann. Turnover:	20-40%

Dodge & Cox manages a diversified portfolio of securities that are selected through bottom-up, fundamental analysis. The Firm believes that by combining fundamental research with a long-term investment horizon it is possible to uncover and act upon inefficiencies in the valuation of market sectors and individual securities. Dodge & Cox's strategy tends to emphasize corporate credit and often maintains a relatively concentrated issuer profile within that sector.

Goldman Sachs Asset Management

Product Name:	U.S. Core Plus Fixed Income	Benchmark:	Bloomberg U.S. Aggregate
Product Inception Date:	September 1990	Investment Style:	Active Core Plus Bond
Firm Assets (6/30/24):	\$2.6 trillion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$104.1 billion	Investment Process:	Top-down/Bottom-up
Product Location:	New York, NY	Expected # of Holdings:	250-350
Date Funded:	July 1993	Expected Ann. Turnover:	75-150%

Goldman Sachs Asset Management (GSAM) manages portfolios actively, combining fundamental economic analysis together with quantitative analysis and short-term market dynamics to determine portfolio positioning. GSAM's top-down strategy teams generate macro decisions on duration and broad sector allocation, while their bottom-up strategy teams drive sub-sector allocations and individual security selection. Portfolios are diversified among various sectors and individual securities, while the assigned portfolio manager ensures the team's best ideas are reflected in client portfolios, subject to unique objectives and constraints.

Combined Funds

Fixed Income Program: Investment Manager Summaries

Fixed Income Program Managers

Core/Core Plus Bond Managers

Neuberger Berman Investment Advisers LLC

Product Name:	Core Plus	Benchmark:	Bloomberg U.S. Aggregate
Product Inception Date:	October 1998	Investment Style:	Active Core Plus Bond
Firm Assets (6/30/24):	\$481 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$2.6 billion	Investment Process:	Top-down/Bottom-up
Product Location:	Chicago, IL	Expected # of Holdings:	750-1250
Date Funded:	July 1988*	Expected Ann. Turnover:	75-200%

*Date reflects SBI's initial funding of semi-passive strategy.

Neuberger Berman's Core Plus team builds fixed income portfolios with an emphasis on broad diversification by sector, industry, and security. Key sources of expected alpha are sector allocation/rotation and security selection, followed by a disciplined use of active duration/yield curve positioning. Sector allocation/rotation, duration/yield curve exposures and portfolio risk levels are determined using a proprietary asset allocation framework which seeks to identify relative value and risk across fixed income subsectors. Once sector allocations have been determined, security selection decisions are made by the portfolio managers, research analysts and traders on sector-specialty teams within these defined sector exposure constraints.

Western Asset Management Company LLC

Product Name:	U.S. Core Plus	Benchmark:	Bloomberg U.S. Aggregate
Product Inception Date:	January 1982	Investment Style:	Active Core Plus Bond
Firm Assets (6/30/24):	\$384.1 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$66.8 billion	Investment Process:	Bottom-up
Product Location:	Pasadena, CA	Expected # of Holdings:	1000-1800
Date Funded:	July 1984	Expected Ann. Turnover:	50-100%

Western believes that markets often misprice securities relative to their true fundamental fair value, and that a disciplined investment process can systematically identify and exploit security mispricing over time. Western's approach seeks diversified sources of returns to maximize consistency across different market environments so that no single strategy dominates performance. The team's investment process starts with a top-down macroeconomic and market investment outlook over a six- to nine- month horizon, formulated by the team's senior professionals. Portfolio managers incorporate this outlook into their strategy within the constraints and guidelines of each individual portfolio. Fundamental research is conducted by a large, highly experienced team of research professionals organized by sector specialization. Portfolio managers work closely with the sector specialist teams to ensure the Firm's best ideas are fully implemented in client portfolios.

Combined Funds

Fixed Income Program: Investment Manager Summaries

Fixed Income Program Managers

Return-Seeking Fixed Income Managers – Credit Plus Mandates

Columbia Threadneedle Investments

Product Name:	Multi-Sector Fixed Income	Benchmark:	Custom Credit Plus Benchmark*
Product Inception Date:	November 2020	Investment Style:	Active Multi-Sector Bond
Firm Assets (6/30/24):	\$655.5 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$892.0 million	Investment Process:	Bottom-up
Product Location:	Minneapolis, MN	Expected # of Holdings:	500-1250
Date Funded:	December 2020	Expected Ann. Turnover:	25-35%

*Benchmark is 40% BB US Corp Bond Index, 30% BB US MBS Index, 20% ICE BofA BB High Yield Index, 10% JPMorgan EMBI Global Div Index

Columbia Threadneedle Investments manages portfolios using a bottom-up, relative value approach in combination with a top-down, macro outlook that guides the firm’s relative value decisions. The team emphasizes security selection and sector allocation as the primary drivers of relative return, while active duration and yield curve positioning are utilized sparingly. The fixed income team is divided into sector specialists which provide input to the portfolio managers in determining an overall investment strategy. The overall investment objective is to deliver positive relative returns within a risk-managed approach, striving for competitive risk-adjusted performance over time.

Pacific Investment Management Company LLC (PIMCO)

Product Name:	Diversified Income	Benchmark:	Custom Credit Plus Benchmark*
Product Inception Date:	July 2003	Investment Style:	Active Multi-Sector Bond
Firm Assets (6/30/24):	\$1.8 trillion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$27.4 billion	Investment Process:	Bottom-up
Product Location:	Newport Beach, CA	Expected # of Holdings:	850-1000
Date Funded:	December 2020	Expected Ann. Turnover:	40-80%

*Benchmark is 40% BB US Corp Bond Index, 30% BB US MBS Index, 20% ICE BofA BB High Yield Index, 10% JPMorgan EMBI Global Div Index

PIMCO’s Diversified Income strategy is a global multi-sector strategy that seeks to outperform the benchmark by capturing best ideas across corporate credit, emerging markets, and structured credit. The strategy seeks to add value from tactical allocation among global credit sectors and combining bottom-up fundamental research and top-down macroeconomic analysis. Sector allocations, as well as duration and yield curve positioning, are guided by PIMCO’s global macro outlook. Sector specialist teams focus on sub-sector and security level fundamental research and manage portfolio implementation at the direction of the strategy portfolio managers. The approach targets consistent excess returns by focusing on diversified sources of value add rather than relying on concentrated risks.

Combined Funds

Fixed Income Program: Investment Manager Summaries

Fixed Income Program Managers

Return-Seeking Fixed Income Managers – Multi-Asset Credit Mandates

Payden & Rygel

Product Name:	Payden Multi Asset Credit (PMAC) Strategy	Benchmark:	Custom Multi-Asset Credit Benchmark*
Product Inception Date:	October 2008	Investment Style:	Active Multi-Sector Bond
Firm Assets (6/30/24):	\$156.8 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$9.8 billion	Investment Process:	Top-down/Bottom-up
Product Location:	Los Angeles, CA	Expected # of Holdings:	600-800
Date Funded:	December 2020	Expected Ann. Turnover:	60-80%

*Benchmark is 1/3 ICE BofA High Yield Index, 1/3 Credit Suisse Leveraged Loan Index, 1/3 JPMorgan EMBI Global Index.

Payden & Rygel’s PMAC portfolios are managed with an emphasis on active management, risk control, downside protection, and ESG considerations. The top-down process resides with the firm’s Investment Policy Committee (IPC) which reviews the global macro environment, forming broad-based views on growth, inflation, and other key factors. Bottom-up security selection within PMAC is driven by ideas from the firm’s research team of strategists, credit analysts and sector analysts shared across all strategies. The sector specialist teams continually identify the firm’s best ideas from a broad multi-sector opportunity set and support the construction of a “core income stream” portfolio, while the strategy’s portfolio managers oversee portfolio implementation.

PGIM Fixed Income

Product Name:	Strategic Credit	Benchmark:	Custom Multi-Asset Credit Benchmark*
Product Inception Date:	June 2019	Investment Style:	Active Multi-Sector Bond
Firm Assets (6/30/24):	\$805.4 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$11.2 billion	Investment Process:	Bottom-up
Product Location:	Newark, NJ	Expected # of Holdings:	200-600
Date Funded:	December 2020	Expected Ann. Turnover:	50-100%

*Benchmark is 1/3 ICE BofA High Yield Index, 1/3 Credit Suisse Leveraged Loan Index, 1/3 JPMorgan EMBI Global Index.

PGIM Fixed Income manages multi-sector portfolios based on the philosophy that diversified portfolios, built through the integration of macroeconomic research, credit research, quantitative research, and risk management can achieve consistent excess returns for clients with a high information ratio or Sharpe ratio. Risk budgeting is central to the firm’s investment approach. The Strategic Credit Strategy seeks to generate alpha from multiple sources through active allocation across spread sectors, with an intense focus on industry and issuer credit research. The team uses a collaborative bottom-up, research-driven security selection process where managers and analysts make joint decisions. Allocations are made within risk thresholds established by a ‘risk budget’ created specifically for each portfolio.

Combined Funds

Fixed Income Program: Investment Manager Summaries

Fixed Income Program Managers

Return-Seeking Fixed Income Managers – High Yield Mandates

KKR

Product Name:	High Yield Credit Strategy	Benchmark:	ICE BofA Cash Pay High Yield Constrained Index
Product Inception Date:	April 2011	Investment Style:	Active High Yield Bond
Firm Assets (6/30/24):	\$601.3 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$3.2 billion	Investment Process:	Bottom-up
Product Location:	New York, NY	Expected # of Holdings:	200-400
Date Funded:	December 2020	Expected Ann. Turnover:	30-80%

The KKR High Yield Strategy focuses on income-generating high yield bonds with a significant focus on principal protection. KKR's security selection is based on a fundamentally driven investment philosophy, which is comprised of deep credit due diligence, underwriting and rigorous financial analysis. KKR's analysts evaluate opportunities up and down the capital structure to identify the most attractive risk-adjusted return investment opportunities. KKR's team also utilizes their Global Macro and Asset Allocation team to marry their fundamental bottoms up analysis with a top-down macro analysis. KKR portfolio managers select and size assets for the portfolio based on input from a variety of teams including investment analysts, Portfolio Construction and Risk Management, Trading and Macro, and Asset Allocation, as well as individual client objectives and portfolio guidelines.

Oaktree

Product Name:	U.S. High Yield Bond	Benchmark:	ICE BofA Cash Pay High Yield Constrained Index
Product Inception Date:	January 1986	Investment Style:	Active High Yield Bond
Firm Assets (6/30/24):	\$193.0 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$14.5 billion	Investment Process:	Bottom-up
Product Location:	Los Angeles, CA	Expected # of Holdings:	190-220
Date Funded:	December 2020	Expected Ann. Turnover:	40-50%

Oaktree believes that the foundations of successful high yield bond investing are the conscious bearing of credit risk for profit and acting as a prudent lender rather than a securities trader. Oaktree believes that strong long-term performance can only be achieved through superior knowledge of companies. Oaktree's team of experienced credit analysts conduct extensive fundamental credit analysis to determine an issuer's credit worthiness and assess relative value. Analyst opinions are summarized and communicated using a proprietary Credit Scoring Matrix. Portfolio managers and analysts work together to construct well-diversified portfolios of quality high yield names that offer the best combination of downside protection and income potential.

Combined Funds

Fixed Income Program: Investment Manager Summaries

Fixed Income Program Managers

Return-Seeking Fixed Income Managers – Other Mandates

Ashmore Investment Management Ltd. (Emerging Markets Debt)

Product Name:	EM Blended Debt Total Return	Benchmark:	Custom EM Blended Debt Benchmark**
Product Inception Date:	June 2003	Investment Style:	Active Emerging Markets Bond
Firm Assets (6/30/24):	\$49.5 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$8.9 billion*	Investment Process:	Top-down
Product Location:	London, England, UK	Expected # of Holdings:	300-500
Date Funded:	December 2020	Expected Ann. Turnover:	35-60%

*Includes all emerging markets debt managed by this team and underpinned by a comparable investment strategy.

**Benchmark is 50% JPMorgan EMBI Global, 50% JPMorgan GBI-EM Index

Ashmore's Blended Debt strategy was launched in 2007 based on the firm's experience that no one theme consistently outperforms year after year, and that tactical rotation between U.S. dollar-denominated external government debt, hard currency corporate debt, and local currency sovereign debt offers the widest opportunity to add value for client portfolios. The team uses a combination of top-down macro insight and bottom-up country and security level research conducted by the firm's extensive research teams to construct portfolios. Over time, the team seeks to diversify sources of value across macro/theme allocation (40%), country/credit selection (40%) and currency allocation (20%).

BlackRock Financial Management Inc. (Opportunistic)

Product Name:	Multi-Sector Opportunistic Fixed Income	Benchmark:	ICE BofA 3Mth T-Bill Index
Product Inception Date:	November 2020	Investment Style:	Active Opportunistic Bond
Firm Assets (6/30/24):	\$10.6 trillion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$51.8 billion	Investment Process:	Top-down/Bottom-up
Product Location:	New York, NY	Expected # of Holdings:	600-1500
Date Funded:	December 2020	Expected Ann. Turnover:	50-300%

BlackRock's multi-sector opportunistic fixed income strategy is managed by the firm's Multi-Sector Portfolio Investment Team and led by Blackrock's CIO of Global Fixed Income. The strategy seeks alpha by strategically allocating between three alpha sources: (1) macro strategies, (2) sector allocation and (3) security selection. The Team's investment process is systematic, disciplined, research-driven and rooted in the firm's culture of teamwork and information sharing. Within the process, the multi-sector team is responsible for setting the top-down asset allocation framework for portfolio construction, and the sector specialists and traders are responsible for bottom-up idea generation (including research, analysis, and security selection) and trade execution.

TCW (Securitized Credit)

Product Name:	TCW Securitized Opportunities	Benchmark:	ICE BofA 3Mth T-Bill Index
Product Inception Date:	December 1991	Investment Style:	Active Securitized Credit Bond
Firm Assets (6/30/24):	\$198 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$4.3 billion	Investment Process:	Bottom-up
Product Location:	Los Angeles, CA	Expected # of Holdings:	600-800
Date Funded:	June 2021	Expected Ann. Turnover:	10-50%

The TCW Securitized Opportunities strategy is an opportunistic, total return fixed income strategy that invests in agency and non-agency mortgage-backed securities, commercial mortgage-backed securities, and asset-backed securities. The strategy is managed without a prescribed duration or credit limitation and may vary significantly over time. The strategy focuses on bottom-up security selection across the securitization market. TCW applies a disciplined, fundamental-based research effort to distinguish opportunities among security types in order to achieve its total return target over a full credit cycle.

Combined Funds

Fixed Income Program: Investment Manager Summaries

Fixed Income Program Managers

Treasury Protection Managers

BlackRock Financial Management Inc.

Product Name:	Long Duration Treasury	Benchmark:	Bloomberg Treasury 5+ Year Index
Product Inception Date:	January 2018	Investment Style:	Active Fundamental Fixed Income
Firm Assets (6/30/24):	\$10.6 trillion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$3.9 billion	Investment Process:	Bottom-up
Product Location:	New York, NY	Expected # of Holdings:	50-200
Date Funded:	February 2018	Expected Ann. Turnover:	50-300%

BlackRock manages a fixed income protection portfolio that closely tracks the Bloomberg Treasury 5+ Year Index. BlackRock employs a risk-controlled approach that keeps active duration and yield curve positions within tight limits, while using modest sector rotation and security selection positioning to add incremental value within the constraints of the mandate.

Goldman Sachs Asset Management

Product Name:	U.S. Government Fixed Income	Benchmark:	Bloomberg Treasury 5+ Year Index
Product Inception Date:	February 1993	Investment Style:	Active Fundamental Fixed Income
Firm Assets (6/30/24):	\$2.6 trillion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$7.5 billion	Investment Process:	Bottom-up
Product Location:	New York, NY	Expected # of Holdings:	40-60
Date Funded:	January 2018	Expected Ann. Turnover:	50-75%

Goldman manages a fixed income protection portfolio that closely tracks the Bloomberg U.S. Treasury 5+ Year Index. Goldman manages the portfolio within a risk-controlled framework. The firm relies primarily on security selection strategies, term structure, and highly controlled interest rate anticipation strategies to generate incremental return relative to the benchmark. Tactical trades between U.S. Treasuries, agencies, supranationals, and TIPS may be implemented to take advantage of short-term relative value opportunities.

Neuberger Berman Investment Advisers LLC

Product Name:	Protection Portfolio	Benchmark:	Bloomberg Treasury 5+ Year Index
Product Inception Date:	January 2018	Investment Style:	Active Fundamental Fixed Income
Firm Assets (6/30/24):	\$481 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$9.6 billion	Investment Process:	Bottom-up
Product Location:	Chicago, IL	Expected # of Holdings:	50-125
Date Funded:	January 2018	Expected Ann. Turnover:	50-175%

Neuberger manages a fixed income protection portfolio that seeks to replicate the interest rate risk characteristics of the Bloomberg Treasury 5+ Year Index. Neuberger's Global Rates Team oversees strategy implementation, determining the appropriate active duration and yield curve positioning based on their outlook for the economy and their evaluation the expectations for growth, inflation, and Fed policy reflected in prevailing interest rates. The team utilizes out-of-benchmark positions in U.S. agencies and TIPS on a tactical basis when such securities offer value relative to nominal U.S. Treasuries.

Combined Funds

Fixed Income Program: Investment Manager Summaries

Fixed Income Program Managers

Laddered Bond Managers

Goldman Sachs Asset Management

Product Name:	U.S. Short Duration Fixed Income	Benchmark:	ICE BofA 3Mth T-Bill Index
Product Inception Date:	September 1988	Investment Style:	Active Short Duration Bond
Firm Assets (6/30/24):	\$2.6 trillion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$87.7 billion	Investment Process:	Bottom-up
Product Location:	New York, NY	Expected # of Holdings:	55-125
Date Funded:	October 2020	Expected Ann. Turnover:	Approx. 60%

Goldman Sachs manages a short duration fixed income ladder portfolio intended to preserve the value and safety of principal and provide liquidity consistent with the maturity profile of the custom liability benchmark provided by the SBI. The firm relies primarily on security selection strategies in rates sensitive asset classes tied to the liability benchmark such as Treasuries and U.S. Agencies, though Goldman also attempts to add incremental yield in credit and municipal bonds, when the technical and fundamental backdrop for these asset classes is constructive.

Neuberger Berman Investment Advisers LLC

Product Name:	Short Duration/Enhanced Cash	Benchmark:	ICE BofA 3Mth T-Bill Index
Product Inception Date:	November 2004	Investment Style:	Active Short Duration Bond
Firm Assets (6/30/24):	\$481 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$5.1 billion	Investment Process:	Bottom-up
Product Location:	Chicago, IL	Expected # of Holdings:	60-80
Date Funded:	October 2020	Expected Ann. Turnover:	30-125%

Neuberger manages a fixed income short duration Treasury ladder portfolio that seeks to preserve the value and safety of principal and provide liquidity consistent with the maturity profile of the custom liability benchmark provided by SBI. While emphasizing these objectives, Neuberger seeks to maximize the rate of return on investment with the goal of outperforming the benchmark on a net of fees basis.

Cash Manager

State Street Global Advisors (SSGA)

Product Name:	Short Term Investment Strategy	Benchmark:	iMoneyNet All Taxable Money Fund Average
Product Inception Date:	May 1978	Investment Style:	Cash Management
Firm Assets (6/30/24):	\$4.4 trillion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$148.6 billion	Investment Process:	Bottom-up
Product Location:	Boston, MA	Expected # of Holdings:	50-125
Date Funded:	August 1990	Expected Ann. Turnover:	N/A

SSGA manages the cash portfolio to provide safety of principal, a high level of liquidity and a competitive yield. The Cash portfolio is invested in high quality, short-term securities generally less than 397 days. Principal protection and same-day liquidity are priorities. Holdings include U.S. Treasury and Agency issues, repurchase agreements, banker's acceptances, commercial paper, short-term corporates, and certificates of deposit.

Combined Funds

Private Markets Program

Private Markets Program

The Combined Funds have a 25% target allocation to private market investments across private equity, private credit, real assets, and real estate funds. A description of each segment of the Private Markets Program is described in the respective sections of this annual report.

Allocation

As of June 30, 2024, asset mix and market values for asset class segments within the Private Markets Program are shown in Figure 42.

The Private Markets Program includes an invested allocation consisting of capital invested in underlying investment funds and an uninvested allocation. When the Private Markets Program is below its target allocation, the uninvested allocation represents the amount by which the actual value of the Private Markets allocation lags the target allocation. In such instances, the uninvested allocation may be equitized until it is needed for investment. The uninvested portion of the Private Markets allocation is equitized by investing in domestic equities using a combination of physical securities and an overlay program fully collateralized by cash.

When the program is at or above target, cash may be held in the uninvested allocation for processing capital calls and distributions.

In fiscal year 2024, the Private Markets invested allocation was in line with or near the target allocation. As a result, the assets of the Private Markets uninvested allocation were held in cash rather than invested in equities.

Performance

Figure 43 provides the performance of the Private Markets segments as of June 30, 2024.

Private Markets Asset Mix as of June 30, 2024

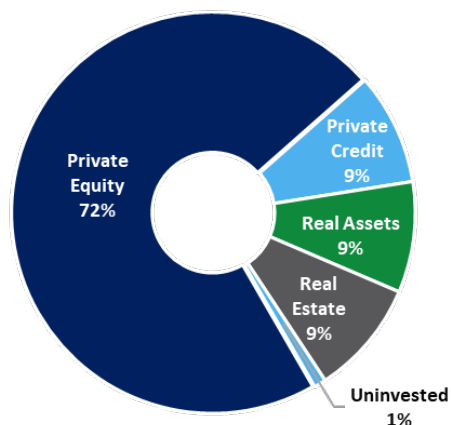


Figure 42. Private Markets Program as of June 30, 2024

Segments	Asset Mix	Market Value (in Millions)
Private Equity	72%	\$16,519.5
Private Credit	9%	2,071.4
Real Assets	9%	2,057.4
Real Estate	9%	2,132.8
<i>Stock Distributions and Accruals</i>	0%	52.0
Private Markets Invested	99%	\$22,833.2
Private Markets Uninvested	1%	221.5
Private Markets Program	100%	\$23,054.7

Figure 43. Private Markets Invested Performance (%) For Periods Ending June 30, 2024

Segment	1 Year	Annualized Performance		
		3 Year	5 Year	10 Year
Private Equity	9.8	10.8	16.1	15.2
Private Credit	9.8	13.2	11.5	12.3
Real Assets	4.4	12.8	4.6	1.3
Real Estate	-6.7	9.0	8.9	10.1
Private Markets Invested	7.7	11.0	12.9	11.6

Combined Funds

Private Markets Program: Invested Allocation

Private Markets Invested Allocation

The invested portion of the Private Markets Program consists of funds that make equity or debt investments in private businesses. The Private Markets Program is exclusive to the Combined Funds.

As of June 30, 2024, the market value of the Private Markets invested allocation was approximately \$22.8 billion.

Statutory Constraints

The SBI's private market investments are generally subject to the following statutory constraints:

- Each investment must involve at least four other investors.
- SBI's participation in an investment may not exceed 20% of the total investment.

The foregoing statutory constraints do not apply to the SBI's private market investments in co-investment or separate account vehicles, which allow the SBI to leverage its scale to obtain cost savings.

Management Structure

Given their long-term investment horizon, the Combined Funds are well-suited for investments in private markets. The target allocation to private markets investments for the Combined Funds is 25% of the total portfolio market value.

The SBI does not establish an allocation target for each segment. Categorization of the private markets sub-asset class allocations has evolved over time.

Private Markets Segments

— **Private Equity:** The private equity investment strategy is to establish and maintain a broadly diversified private equity portfolio comprised of investments that provide diversification by industry type, stage of corporate development, and location. Prospective private equity managers are reviewed and selected based primarily on the manager's experience, investment strategy, diversification potential, and performance history.

During fiscal year 2024, the SBI approved private equity commitments with Blackstone, Blue Owl Capital, Bridgepoint, Court Square Capital Partners, Dawson, Lexington Capital Partners, Stellex Capital Partners, TPG Capital, Whitehorse, and Vance Street Capital.

The SBI will continue to review private equity investment opportunities for possible inclusion in the program.

— **Private Credit:** The strategy for private credit investments is to target funds that typically provide a current return. In addition, certain funds may employ a strategy with an equity component. Subordinated debt, mezzanine, and direct lending investments are typical private credit investments. Managers are reviewed and selected based on the manager's experience, investment strategy, diversification potential, and performance history.

During fiscal year 2024, the SBI approved private credit commitments with Permira and Torchlight Investors.

The SBI will continue to review private credit investment opportunities for possible inclusion in the program.

— **Real Estate:** The real estate investment strategy calls for the establishment and maintenance of a broadly diversified real estate portfolio comprised of investments that provide overall diversification by property type and location. The main components of this portfolio consist of investments in closed-end commingled funds. The remaining portion of the portfolio may include investments in less diversified, more focused (specialty) commingled funds and REITs. Prospective real estate managers are reviewed and selected based on the manager's experience, investment strategy, diversification potential, and performance history.

During fiscal year 2024, the SBI approved real estate commitments with Blackstone, Brookfield, and TPG Angelo Gordon.

The SBI will continue to review real estate investment opportunities for possible inclusion in the program.

— **Real Assets:** The strategy for real asset investments is to establish and maintain a diversified portfolio of investment vehicles comprised of tangible assets, which provide an inflation

Combined Funds Private Markets Program: Invested Allocation

hedge and additional diversification. Real asset investments may include natural resources, infrastructure, agricultural, and timber assets. The portfolio is managed to be diversified by geographic area as well as by type. Real asset investments are selected based on the manager’s experience, investment strategy, diversification potential, and performance history.

During fiscal year 2024, the SBI approved real assets commitments with KKR.

The SBI will continue to review real assets investment opportunities for possible inclusion in the program.

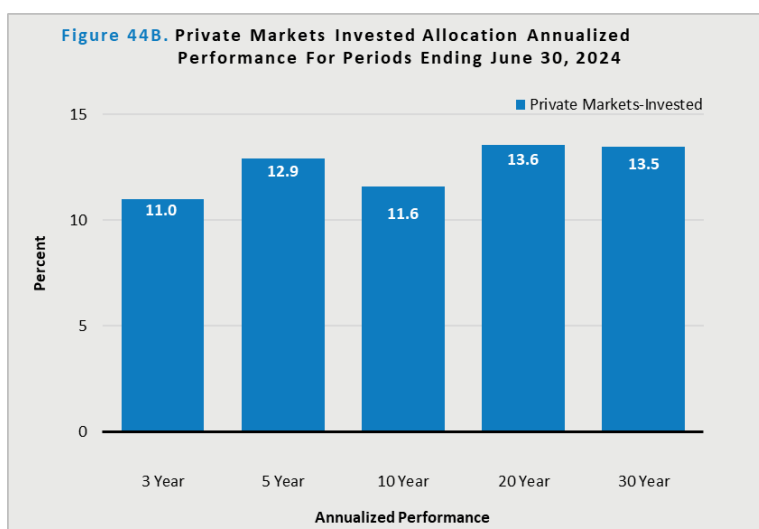
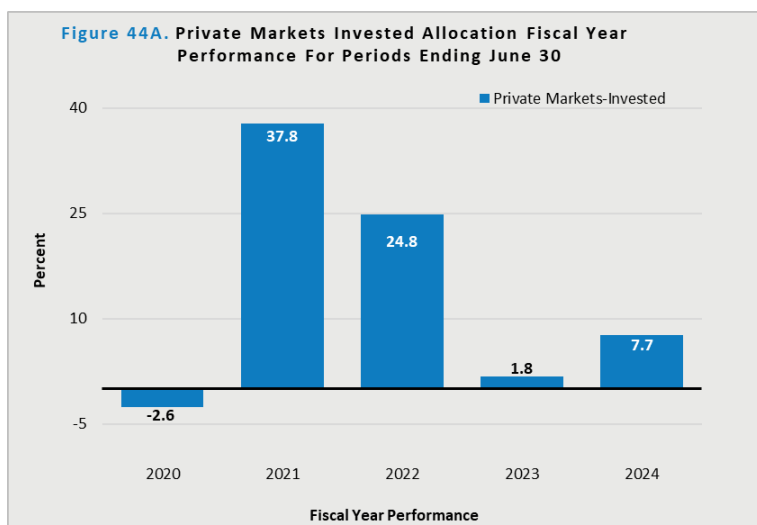
Investment Manager Summaries

A description of each private markets investment manager is included in the **Investment Manager Summaries** section beginning on page 79.

Investment Performance

The SBI reviews the performance of its private markets investments over longer-term time periods relative to public markets investments and expects that private markets investments in aggregate will be accretive to other investments in the Combined Funds.

The Private Markets Program provided a +7.7% return in fiscal year 2024. Over the trailing 10-year period, the Private Markets Program returned +11.6% on an annualized basis, which positively contributed to the Combined Funds’ overall performance. Historical performance results for the Private Markets Program are shown in Figures 44A and 44B.



Combined Funds

Private Markets Program: Uninvested Allocation

Private Markets Uninvested Allocation

When the Private Markets Program is below its target allocation, the uninvested allocation represents the amount by which the actual value of the Private Markets allocation lags the target allocation. In such instances, the uninvested allocation may be equitized until it is needed for investment. The uninvested portion of the Private Markets allocation is equitized by investing in domestic equities using a combination of physical securities and an overlay program fully collateralized by cash.

When implemented, the physical portion of the portfolio is invested in an index strategy benchmarked to the S&P 500. The cash overlay manager is also benchmarked to the S&P 500 and may utilize both equity and interest rate derivatives to replicate desired market exposures.

The mandate for the cash overlay manager is to equitize a portion of the uninvested private market dollars held in cash for liquidity purposes.

Objective

An investment strategy that uses physical assets and a fully collateralized cash overlay program serves many purposes:

- Disentangles the assets from the Public Equity Program and records assets within the targeted asset class to improve operational efficiency.
- Facilitates rebalancing and enhances portfolio liquidity to reduce the transitions necessary to fund commitment drawdowns.

- Provides a low-cost option in a comparable public market mandate so the portfolio remains fully invested.

Investment Managers

Two investment managers, BlackRock and NISA, are under retainer to execute this investment strategy when activated. Descriptions of these private markets investment managers are included in the **Investment Manager Summaries** section beginning on page 112.

When the program is near or above target and the overlay managers are not activated, the uninvested portfolio may hold an amount of cash necessary to manage distributions or capital calls.

In fiscal year 2024, the Private Markets invested allocation was in line with or near the target allocation, and there was no need to equitize the uninvested allocation.

As of June 30, 2024, the uninvested allocation was approximately \$221.5 million.

Investment Performance

When the equity strategy is activated, the performance of the uninvested Private Markets allocation is measured against the S&P 500 Index.

When the equity strategy is not activated, the uninvested Private Markets allocation is held in cash and performance is measured against the ICE BofA 3-Month T-Bill.

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

1st & Main Growth Partners

1st & Main Growth Partners (fka Banc Funds) invests primarily in sub-regional banks across the U.S. that have demonstrated above average growth and are likely acquisition targets. The Firm also provides value-added counsel to its portfolio companies to improve growth, profitability, and enhance franchise value.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: Chicago, IL						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Banc Fund IX	\$ 107,205,932	\$ 107,205,932	\$ 65,681,790	\$ 83,874,637	1.40	5.07	2014	
Banc Fund X	71,345,455	80,254,545	7,325,397	82,903,587	1.12	2.84	2018	

AB CarVal (CVI)

AB CarVal is based in Minneapolis, MN with offices in New York, London, Luxembourg, and Singapore. The CVI Funds will make investments in loan portfolios, corporate securities, international real estate, and real estate loans and special opportunities. In 2022, AB CarVal was acquired by AllianceBernstein.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Non-Control		Strategy Location: Minneapolis, MN						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
CVI Credit Value Fund A II	\$ 150,000,000	\$ 142,500,000	\$ 200,538,622	\$ 3,017,925	1.43	8.28	2012	
CVI Credit Value Fund A III	150,000,000	142,500,000	168,545,561	27,512,135	1.38	8.37	2015	
CVI Credit Value Fund IV	150,000,000	104,609,760	63,766,666	95,145,347	1.52	7.67	2017	
CVI Credit Value Fund V	150,000,000	142,500,000	154,566.00	161,140,852	1.13	7.18	2020	

Adams Street Partners

Adams Street Partners Global Secondary Funds will primarily invest through secondary purchases of interests in private markets investment vehicles or assets, seeking to create a portfolio diversified by time, manager, geography, sector, and transaction type.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Secondaries		Strategy Location: Chicago, IL						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Adams Street Global Secondary Fund 5	\$ 100,000,000	\$ 77,114,692	\$ 80,333,805	\$ 25,373,497	1.37	6.30	2012	
Adams Street Global Secondary Fund 6	100,000,000	80,400,008	76,525,751	52,965,787	1.61	19.12	2017	
Adams Street Global Secondary Fund 7	265,355,000	126,852,984	-	166,769,330	1.31	32.80	2021	

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

Advent International

Advent International Global Private Equity (GPE) program focuses on investing primarily in buyout and recapitalization opportunities in upper middle-market companies with a focus on value creation through business transformation and earnings growth. Advent's geographic focus is Europe, North America, and selectively in Asia.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: Boston, MA and London						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Advent International GPE VI-A	\$ 50,000,000	\$ 52,993,313	\$ 103,400,194	\$ 4,218,304	2.03	16.40	2008	
Advent International GPE VII	90,000,000	86,490,641	146,622,935	9,789,270	1.81	13.26	2012	
Advent International GPE VIII-B	100,000,000	100,000,000	116,871,821	91,321,839	2.08	16.83	2016	
Advent International GPE IX	115,000,000	107,532,348	11,495,408	149,036,702	1.49	14.92	2019	
Advent International GPE X	150,000,000	62,268,150	-	66,879,418	1.07	7.76	2022	

Affinity Ventures

Affinity Ventures makes venture capital investments exclusively in the health care industry, with a focus on companies in the medical device, health care service, health care information technology, and biotechnology sectors.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Venture Capital		Strategy Location: Minneapolis, MN						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Affinity Ventures V	\$ 5,000,000	\$ 5,000,000	\$ 2,048,042	\$ 313,386	0.47	-12.30	2008	

Apax Partners

Apax Partners flagship funds invest in buyouts globally across its four sectors, tech & telco, services, healthcare, and consumer, with its digital capability as a horizontal specialization spanning across sectors. Through operational expertise and digital acceleration, the Firm aims to build future market leaders. Apax is headquartered in London and has additional offices in Munich, Mumbai, Tel Aviv, Shanghai, and Hong Kong.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: London						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Apax VIII - USD	\$ 200,000,000	\$ 240,451,261	\$ 364,650,169	\$ 21,347,009	1.61	13.09	2013	
Apax IX - USD	150,000,000	162,660,807	190,842,594	118,229,124	1.90	18.97	2016	
Apax X - USD	150,000,000	143,859,275	16,392,016	166,931,096	1.27	12.52	2019	
Apax XI	100,000,000	2,231,849	-	2,680,400	1.20	26.34	2022	

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

Arsenal Capital Partners

Arsenal Capital Partners focuses on making private equity investments in the specialty industrials and healthcare sectors in the lower end of the U.S. middle market. The firm's mission is to build high-growth, technology-and innovation-rich businesses that are strategically important in their markets and deliver value for all stakeholders.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: New York, NY						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Arsenal Fund V	\$ 75,000,000	\$ 73,622,160	\$ 13,742,826	\$ 79,629,889	1.27	7.07	2019	
Arsenal Fund VI	100,000,000	39,168,878	287,031	32,156,334	0.83	-13.45	2021	

Asia Alternatives

Asia Alternatives pursues investment opportunities with top-performing private equity managers and will hold a diversified portfolio of Asian private equity funds. The Funds intend to be diversified across buyout, growth and expansion, venture capital, and special situations. Asia Alternatives is headquartered in San Francisco, CA, and has regional offices in Hong Kong, Beijing, and Shanghai.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: San Francisco, CA						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Asia Alternatives Capital Partners V	\$ 99,000,000	\$ 107,888,911	\$ 28,409,461	\$ 107,277,331	1.26	7.49	2017	
MN Asia Investors	550,000,000	122,120,875	1,215,565	114,033,142	0.94	-4.36	2020	

BlackRock

BlackRock Long Term Private Capital makes equity investments in established businesses with strong, recurring revenues, prudent capital structures, and stable growth potential over a long-term horizon. The Fund is focused on longer-term themes than traditional private equity investments and uses the BlackRock global brand and scale, capital markets solutions, technology, and underwriting insights to assist portfolio companies in executing its objectives.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: New York, NY						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
BlackRock Long-Term Capital	\$ 950,000,000	\$ 954,617,522	\$ 491,202,825	\$ 1,531,775,864	2.12	29.66	2019	

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

Blackstone Capital Partners

Blackstone Capital Partners funds make equity investments in the upper end of the middle market globally. Blackstone invests in most sectors in the global economy. Typically, the Firm will add value to underlying portfolio companies by using its functional experts and strategic support groups to improve operations. Blackstone Energy Transition funds will invest in subsectors that are primary and secondary beneficiaries of the energy transition mega trends, including clean power generation, electric transmission, energy technology, services and efficiency, and critical energy infrastructure. Blackstone Growth funds make equity investments in dynamic, growth-stage businesses in five core sectors globally: consumer, consumer technology, enterprise software, financial services, and healthcare. Blackstone Supplemental Account is a separately managed account that invests across the active Blackstone private equity vehicles in which the SBI is a limited partner.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Buyout		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Blackstone Capital Partners Asia II	\$ 270,000,000	\$ 67,509,678	\$ 997	\$ 79,835,932	1.18	14.75	2021
Blackstone Capital Partners IV	70,000,000	84,481,419	201,562,974	58,902	2.39	37.02	2002
Blackstone Capital Partners V	140,000,000	152,431,082	246,495,819	558,306	1.62	8.03	2006
Blackstone Capital Partners VI	100,000,000	106,951,296	169,463,307	25,644,852	1.82	12.33	2008
Blackstone Capital Partners VII	130,000,000	140,281,981	104,295,331	117,817,332	1.58	12.06	2015
Blackstone Capital Partners VIII	150,000,000	123,340,535	11,341,702	132,011,081	1.16	8.42	2019
Blackstone Capital Partners IX	150,000,000	-	-	-	0.00	0.00	2022
Blackstone Energy Transition IV	150,000,000	-	-	-	0.00	0.00	2024
Blackstone Growth	250,000,000	212,501,688	26,372,335	177,055,785	0.96	-1.84	2020
Blackstone Growth Equity II	150,000,000	-	-	-	0.00	0.00	2022
Blackstone Supplemental Account - M	125,000,000	65,552,913	834,272	63,329,322	0.98	-0.91	2021

Blackstone Strategic Partners (BS)

Blackstone Strategic Partners invests in secondary leveraged buyouts, venture capital, and mezzanine debt limited partnership interests which are sold by investors who, for a variety of reasons, have decided to liquidate all or a portion of their private equity holdings. In 2013, the Strategic Partners funds platform was sold to The Blackstone Group and is now wholly owned by Blackstone.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Buyout		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
BS Strategic Partners IV VC	\$ 40,500,000	\$ 42,325,414	\$ 63,954,747	\$ 70,044	1.51	9.01	2008
BS Strategic Partners IV-B	100,000,000	99,541,961	155,239,588	74,260	1.56	12.10	2008
BS Strategic Partners V	100,000,000	87,497,031	141,091,599	156,262	1.61	18.21	2011
BS Strategic Partners VI	150,000,000	104,575,316	138,161,009	19,899,101	1.51	13.70	2014
BS Strategic Partners VII	150,000,000	124,810,944	149,791,406	59,825,358	1.68	16.99	2016
BS Strategic Partners VIII	150,000,000	125,735,508	95,151,365	101,382,060	1.56	25.40	2018
BS Strategic Partners IX	100,000,000	38,270,223	4,316,209	40,352,361	1.17	13.78	2022

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

Blue Owl Capital

Blue Owl GP Stakes funds make minority equity investments in established investment management companies. The Firm seeks to build a portfolio that will be diversified by investment strategy, vintage year, and geography. Blue Owl empowers its partner management companies with strategic support and resources. Blue Owl was formed via a merger between Owl Rock Capital, Dyal Capital Partners, and Altimar Acquisition Corporation in 2021.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: New York, NY						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Blue Owl GP Stakes III	\$ 175,000,000	\$ 215,743,153	\$ 219,434,359	\$ 182,161,092	1.86	25.01	2015	
Blue Owl GP Stakes IV	250,000,000	204,433,623	160,013,166	222,382,772	1.87	37.55	2018	
Blue Owl GP Stakes V	200,000,000	94,093,530	37,352,672	72,461,676	1.17	12.69	2020	
Blue Owl GP Stakes VI	150,000,000	-	-	-	0.00	0.00	2024	

Bridgepoint Group

Bridgepoint Group is a European-headquartered alternative asset manager specializing in private equity, private debt, and infrastructure. The Bridgepoint Europe strategy invests in European middle market buyouts, focused on businesses in six primary sectors: business services, consumer, financial services, healthcare, advanced industrials, and media and sports rights. The strategy focuses on companies in growth niches that have the potential to deliver premium returns irrespective of macroeconomic conditions. Bridgepoint Development Capital makes equity investments in the same sectors as Bridgepoint Europe but within the European lower middle market.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: London						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Bridgepoint Development Capital V	\$ 107,175,048	\$ -	\$ -	\$ -	0.00	0.00	2024	
Bridgepoint Europe VI	160,762,572	161,699,396	17,634,108	239,077,742	1.59	16.71	2018	
Bridgepoint Europe VII	104,757,706	19,200,620	2,294,791	14,370,265	0.87	-17.76	2022	

Brookfield Asset Management

Brookfield Asset Management is a global operator and asset manager of real assets-related businesses. The Capital Partners strategy invests in industrials, business services, and infrastructure services, and will target investments in complex situations, out-of-favor sectors, and companies that require operational changes. Brookfield improves value at portfolio companies by focusing on areas that drive free cash flow such as governance, health and safety, commercial and operational excellence, and digital strategy.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: Toronto, Ontario						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Brookfield Capital Partners IV	\$ 100,000,000	\$ 115,775,619	\$ 221,896,539	\$ 50,602,022	2.35	41.91	2015	
Brookfield Capital Partners V	250,000,000	262,731,200	41,976,499	332,360,452	1.42	13.29	2018	
Brookfield Capital Partners VI	150,000,000	67,943,984	1,891,657	84,080,668	1.27	26.46	2022	

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

Canyon Partners

Canyon is a global value-oriented alternative asset manager that employs a variety of credit strategies across a broad spectrum of asset classes. Canyon invests across the capital structure in instruments including leveraged loans, Debtor-in-Possession (DIP) loans, revolving credit facilities, privately negotiated financings, high yield bonds, trade claims, convertibles, credit derivatives and equities, among others.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Non-Control		Strategy Location: Los Angeles, CA						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Canyon Distressed Opportunity Fund III	\$ 125,000,000	\$ 146,475,843	\$ 45,287,279	\$ 144,581,467	1.30	11.65	2020	

Cardinal Partners

Cardinal Partners DSV Partners funds focus on start-up and early-stage investments.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Growth		Strategy Location: Princeton, NJ						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Cardinal Partners DSV Partners IV	\$ 10,000,000	\$ 10,000,000	\$ 39,196,082	\$ 118,565	3.93	10.61	1985	

Carlyle Group

Carlyle Partners funds seek to make control-oriented and strategic minority equity investments, targeting market-leading businesses with solid cash flows and attractive fundamentals, where it looks to drive further growth and operational improvement. Carlyle Strategic Partners funds invest in the debt and/or equity of proprietarily sourced companies affected by market- and company-specific dislocations.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: Washington, DC						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Carlyle Partners VII	\$ 150,000,000	\$ 159,096,809	\$ 21,252,760	\$ 178,482,178	1.26	7.02	2017	
Carlyle Partners VIII	150,000,000	79,983,492	7,001,687	77,695,680	1.06	5.51	2021	
Carlyle Strategic Partners IV	100,000,000	119,848,374	53,429,269	81,370,751	1.12	4.86	2016	

Clearlake Capital

Clearlake makes investments across the private equity, credit, and special situations spectrum. Its efforts are focused on the technology, industrials, and consumer sectors. The Capital Partners funds focus on situations where the Firm has a majority or 100% control of the portfolio company. Clearlake has an operational improvement approach to transform and grow companies.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: Santa Monica, CA						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Clearlake Capital Partners VII	\$ 100,000,000	\$ 57,849,852	\$ 268,947	\$ 63,808,631	1.11	5.95	2022	

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

Court Square Capital Partners

Court Square Capital Partners invests in North American middle-market growth companies in the business services, healthcare, industrial, and technology & telecommunications sectors. After the Firm makes an investment, it partners with the management team to accelerate growth and enhance back-office functions.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: New York, NY						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Court Square Capital Partners II	\$ 164,419,132	\$ 170,270,247	\$ 298,783,330	\$ 239,670	1.76	12.3	2006	
Court Square Capital Partners III	175,000,000	190,475,727	325,596,774	132,624,678	2.41	20.72	2012	
Court Square Capital Partners IV	150,000,000	147,369,728	47,828,024	157,437,533	1.39	15.79	2018	
Court Square Capital Partners V	100,000,000	-	-	-	0.00	0.00	2024	

CVC Capital Partners

CVC focuses on making control-oriented buyout investments globally, but with a focus on Western Europe and North America. CVC seeks to invest in high quality businesses with competitive leadership positions and to work with management to create sustainable long-term value. The Firm currently has 21 offices across Europe and the Americas and 9 offices in the Asia Pacific region.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: London						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
CVC European Equity Partners V	\$ 107,175,048	\$ 153,884,098	\$ 295,558,226	\$ 3,052,275	1.94	16.70	2008	
CVC Capital Partners VI	241,143,858	291,306,182	376,348,683	215,545,181	2.03	16.16	2013	
CVC Capital Partners IX	107,175,048	-	-	-	0.00	0.00	2023	

Glouston Capital Partners

Glouston Private Equity Opportunities Fund was inherited from the Duluth Teachers Retirement Fund Administration in 2015. Glouston was formed to purchase small portfolios of private equity investments on the secondary market.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Secondaries		Strategy Location: Boston, MA						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Glouston PE Opportunities IV	\$ 5,337,098	\$ 4,406,696	\$ 4,794,251	\$ 233,305	1.14	4.35	2014	

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

Goldman Sachs Capital Partners (GS)

Goldman Sachs Capital Partners, GS China-US Cooperation, and GS West Street Capital Partners funds seek long-term capital gains through the creation of a diversified global portfolio of direct or indirect investments in equity, equity-related and similar securities. The Vintage Fund series focuses on acquiring and structuring portfolios of private equity partnerships and assets in the secondary market.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Buyout		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
GS Capital Partners VI	\$ 100,000,000	\$ 110,368,097	\$ 143,690,972	\$ 1,266,029	1.31	7.08	2007
GS China-US Cooperation Fund	99,800,000	42,125,012	523,330.00	52,770,037	1.27	7.58	2018
GS Vintage VII	100,000,000	90,015,713	87,697,948	58,775,732	1.63	14.29	2016
GS West Street Capital Partners VII	150,000,000	144,147,585	128,438,596	115,169,341	1.69	17.23	2016

Goldner Hawn Johnson and Morrison

Goldner Hawn Johnson and Morrison (GHJM) invests primarily in lower middle-market private equity investments in the Midwest and other parts of the U.S. The Firm looks to add value by executing add-on acquisitions, facilitating new strategic initiatives, and/or solving company issues that previously detracted from company value.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Buyout		Strategy Location: Minneapolis, MN					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
GHJM TrailHead Fund	\$ 20,000,000	\$ 17,572,130	\$ 55,500,283	\$ 945,837	3.21	19.63	2012
Goldner Hawn Fund VII	57,755,138	48,781,366	21,716,280	60,949,392	1.69	24.95	2018
Goldner Hawn Fund VIII	72,755,128	18,093,510	1,900	20,101,636	1.11	23.35	2023

GTCR

GTCR focuses on building diversified private equity funds by partnering with exceptional management leaders, developing deep domain expertise in the sectors on which it focuses, and executing transformational opportunities. The strategy invests in business & consumer services, financial services & technology, healthcare, technology, and media & telecommunications.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Buyout		Strategy Location: Chicago, IL					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
GTCR Fund XI	\$ 110,000,000	\$ 108,893,534	\$ 263,126,262	\$ 83,563,259	3.18	31.64	2013

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

HarbourVest

The HarbourVest funds were inherited from the Duluth Teachers Retirement Fund Administration in 2015. HarbourVest is a global investment firm with multiple investment products. The following funds were formed to make direct or secondary investments in established buyout and venture capital funds.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: Boston, MA						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Dover Street VII Cayman Fund	\$ 2,198,112	\$ 2,074,270	\$ 1,856,658	\$ 3,670	0.90	-4.54	2014	
HarbourVest Intl PE V-Cayman US	3,327,002	3,346,199	4,530,727	5,120	1.36	13.54	2014	
HarbourVest Intl PE VI-Cayman	4,018,158	4,040,737	6,117,317	1,649,027	1.92	14.31	2014	
HarbourVest VIII Cayman Buyout	4,506,711	4,395,883	6,132,214	55,346	1.41	12.89	2014	
HarbourVest VIII-Cayman Venture	7,190,898	7,091,082	9,189,664	1,907,503	1.56	10.80	2014	

Hellman and Friedman

Hellman and Friedman seeks to build diversified private equity funds by making large-scale investments in high quality, growing businesses in developed markets. The Firm operates in the technology, healthcare, consumer services & retail, financial services, insurance & insurance services, information & content services, and business services sectors. By targeting already outstanding businesses, the Firm believes its deep sector expertise and bespoke value creation plans can make a significant difference to the trajectory of the company.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: San Francisco, CA						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Hellman & Friedman Capital Partners VII	\$ 50,000,000	\$ 49,914,704	\$ 161,459,211	\$ 4,321,937	3.32	24.84	2009	
Hellman & Friedman Investors IX	175,000,000	178,793,854	18,070,338	249,372,823	1.50	12.89	2018	
Hellman & Friedman Capital Partners X	250,000,000	186,774,242	24,518,498	195,116,927	1.18	7.94	2021	
Hellman & Friedman Capital Partners XI	100,000,000	-	-	-	0.00	0.00	2023	

IK Investment Partners

IK Investment Partners makes equity investments in middle-market business in Europe's northern countries. IK's primary focus is businesses in the consumer, industrial, businesses services, and healthcare sectors. Once IK makes an investment in a business, it seeks to expand the business internationally through a combination of organic growth and via mergers and acquisitions. Wendel acquired a majority stake in IK in 2024.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: London						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
IK Fund VII	\$ 160,762,572	\$ 179,393,652	\$ 322,286,061	\$ 8,418,144	1.84	13.93	2013	
IK Fund VIII	160,762,572	179,209,717	237,952,956	97,435,620	1.87	17.98	2016	
IK Fund IX	144,686,315	147,817,968	-	165,649,829	1.12	5.31	2019	
IK Fund X	104,757,706	-	-	-	-	-	2022	

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

KKR

KKR's private equity funds engage primarily in buyouts, build-ups, control, growth, and other private equity investments globally. Private equity teams are supported by a global network of KKR consultants, operational professionals, and capital markets professionals. The Millennium, 2006, and Americas Funds invest across North America, and the Asia and Europe funds invest in their respective continents. KKR Core invests in cash-generative, relatively lower risk profiles and longer hold periods than traditional buyout strategies. KKR Ascendant seeks to invest in North American middle market companies in control transactions or transactions where KKR has significant influence. KKR MN Partnership is a separately managed account that invests across the active KKR private equity vehicles of which the SBI is a limited partner.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Buyout		Strategy Location: Respective Continents: New York, Hong Kong, London					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
KKR Millennium Fund	\$ 200,000,000	\$ 205,167,570	\$ 425,091,742	\$ -	2.07	16.36	2002
KKR Americas Fund XII	150,000,000	148,323,988	110,101,607	175,061,928	1.92	18.93	2016
KKR Ascendant Strategy	150,000,000	-	-	-	-	-	2023
KKR Asian Fund III	100,000,000	97,315,330	64,840,484	125,925,407	1.96	21.64	2017
KKR Asian Fund IV	150,000,000	80,461,496	7,285,172	88,361,576	1.19	9.55	2020
KKR Core Investments Fund II	100,000,000	25,505,468	-	25,793,260	1.01	1.14	2022
KKR Core Investments Partnership	97,000,000	105,175,332	7,001,708	126,281,174	1.27	10.55	2021
KKR Europe V	100,000,000	95,183,147	22,023,961	107,369,112	1.36	11.65	2018
KKR European Fund VI (USD)	100,000,000	25,315,429	-	16,539,220	0.65	-38.99	2022
KKR MN Partnership	150,000,000	130,288,007	1,021,516	140,437,489	1.09	5.79	2021
KKR North America Fund XIII	300,000,000	175,724,177	354,495	189,659,692	1.08	5.94	2021

Leonard Green & Partners

The Green Equity Investors Funds target investments in market-leading companies with attractive growth prospects across a broad range of industries with a preference for companies providing services, including consumer, business services, as well as retail, distribution, and industrials.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Buyout		Strategy Location: Los Angeles, CA					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Green Equity Investors VI	\$ 200,000,000	\$ 232,647,779	\$ 273,693,677	\$ 205,473,341	2.06	13.61	2012
Green Equity Investors VIII	125,000,000	117,918,237	9,602,633	141,568,265	1.28	9.77	2020

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

Lexington Capital Partners

Lexington Capital Partners funds make investments in established buyout, mezzanine, and venture capital funds, primarily through secondary transactions. Lexington Middle Market funds acquire U.S. growth capital and small and middle market buyout interests through negotiated secondary market purchases. Lexington Co-Investment Partners funds make equity co-investments in transactions alongside leading buyout sponsors in U.S., European, and Asian companies.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Secondaries		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Lexington Capital Partners VI-B	\$ 100,000,000	\$ 98,374,022	\$ 145,958,371	\$ 514,324	1.49	7.90	2005
Lexington Capital Partners VII	200,000,000	173,297,773	271,584,849	18,266,164	1.67	14.33	2009
Lexington Capital Partners VIII	150,000,000	139,025,292	150,375,469	81,730,710	1.67	15.18	2014
Lexington Capital Partners IX	150,000,000	132,581,385	44,353,343	153,020,413	1.49	19.55	2018
Lexington Capital Partners X	100,000,000	40,172,158	1,401,245	47,313,143	1.21	36.12	2021
Lexington Co-Investment Partners IV	200,000,000	219,567,445	171,795,958	216,109,919	1.77	15.68	2017
Lexington Co-Investment Partners V	300,000,000	297,528,884	24,141,513	349,482,489	1.26	14.67	2020
Lexington Co-Investment Partners VI	300,000,000	-	-	-	0.00	0.00	2023
Lexington Co-Investment Partners V Overage	45,000,000	36,342,900	1,805,011	42,931,339	1.23	10.93	2021
Lexington Middle Market Investors IV	100,000,000	83,897,895	37,360,787	89,607,786	1.51	16.89	2016

Madison Dearborn Capital Partners

Madison Dearborn Capital Partners funds pursue buyout investments in U.S. upper and middle-market companies. The Funds invest across a broad range of industries including basic industries, business & government software and services, financial & transaction services, healthcare, and TMT services. The Firm views partnerships with management teams as critical to its success and seeks to use its industry knowledge and contacts to complement the talented teams with whom it's partnering.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Buyout		Strategy Location: Chicago, IL					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Madison Dearborn Capital Partners VII	\$ 100,000,000	\$ 101,451,673	\$ 66,192,167	\$ 89,042,698	1.53	9.88	2015
Madison Dearborn Capital Partners VIII-A	100,000,000	98,677,353	17,139,872	98,873,103	1.18	9.87	2019

Marathon

Marathon Asset Management is a global asset manager that focuses on investing in public and private credit markets. Marathon's Distressed Credit strategy seeks to construct a portfolio of distressed, dislocated, and restructuring corporate credit opportunities in complex situations with attractive risk-adjusted return characteristics.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Non-Control		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Distressed Credit Fund	\$ 200,000,000	\$ 161,906,171	\$ 43,653,419	\$ 163,033,827	1.28	10.05	2020
Distressed Credit Fund II	200,000,000	56,277,310	3,369,255	52,919,440	1.00	0.04	2023

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

Merced Capital

Merced Partners invests in securities with strong downside protection from identifiable asset value and compelling return potential from some combination of current income, asset value appreciation, secondary market instrument appreciation, and enterprise value creation or appreciation.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Non-Control		Strategy Location: Minneapolis, MN						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Merced Partners IV	\$ 125,000,000	\$ 124,968,390	\$ 126,847,539	\$ 12,099,209	1.11	2.17	2013	
Merced Partners V	53,737,500	59,297,897	43,572,850	40,068,485	1.41	6.40	2017	

MHR Institutional Partners (MHR)

MHR Institutional Partners is a private equity investment firm that invests in distressed companies with the goal of gaining influence or control of the company and creating value through the restructuring process and revenue growth. MHR seeks to mitigate risk through rigorous underwriting and structuring, while creating long-term value by working in partnership with its portfolio companies to optimize growth.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Distressed for Control		Strategy Location: New York, NY						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
MHR Institutional Partners IV	\$ 75,000,000	\$ 83,547,509	\$ 26,558,416	\$ 94,340,149	1.45	8.70	2014	

Nordic Capital

Nordic Capital executes buyouts of middle-market businesses, primarily in the Nordic region of Europe. To a lesser extent in the U.S., Nordic Capital focuses on healthcare, technology and payments, financial services, and services and industrial technology businesses where it can use its expertise in these sectors to create value. The Firm partners with management teams and seeks opportunities for growth acceleration, operational improvement, buy and build, strategic repositioning, and international expansion.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: Stockholm, Sweden						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Nordic Capital Fund VIII	\$ 160,762,572	\$ 228,229,426	\$ 296,912,142	\$ 49,665,961	1.52	11.81	2013	
Nordic Capital Fund IX Beta	160,762,572	186,930,398	87,130,766	222,429,033	1.66	16.68	2017	
Nordic Capital Fund X	144,686,315	120,307,140	-	158,574,032	1.32	15.55	2020	
Nordic Capital Fund XI	104,757,706	32,581,755	52,852	29,776,828	0.92	-19.95	2022	

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

Oak Hill Capital Management Inc.

Oak Hill Capital seeks to make middle-market buyout investments across the consumer, industrials, media & communications, and services sectors. The Firm works closely with management teams to provide resources to execute the value creation plan. Oak Hill strives for a systematic and continual review of progress versus plan.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Buyout		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Oak Hill Capital Partners IV Onshore	\$ 150,000,000	\$ 154,205,648	\$ 260,295,639	\$ 41,048,576	1.95	32.14	2016
Oak Hill Capital Partners V	100,000,000	94,574,220	19,109,107	114,037,901	1.41	14.07	2018

Oaktree Capital Management

Oaktree Capital Management is a global private equity firm. The Oaktree Special Situations strategies seek to invest in the debt or equity of companies experiencing a significant element of distress or dislocation or that are otherwise out of favor. Oaktree Capital Management was acquired by Brookfield Asset Management in 2019.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Non-Control		Strategy Location: Los Angeles, CA					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Oaktree Special Situations Fund	\$ 100,000,000	\$ 103,629,411	\$ 22,391,423	\$ 75,949,334	0.95	-1.04	2014
Oaktree Special Situations Fund II	100,000,000	99,330,115	46,579,241	118,670,690	1.66	32.86	2018
Oaktree Special Situations Fund III	200,000,000	47,582,982	-	52,334,619	1.10	7.21	2022

Paine Schwartz

Paine Schwartz is a private equity firm that makes control investments in companies involved in the global food and agribusiness sectors. The Firm has a focus on innovation and sustainability and carries it out with a proactive and thesis-driven approach. The Firm invests in businesses which enhance productivity in the food value chain and provide access to healthier, more nutritious, and safer food.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Buyout		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Paine Schwartz Food Chain Fund IV	\$ 75,000,000	\$ 71,963,700	\$ 35,397,971	\$ 64,210,510	1.38	6.99	2014
Paine Schwartz Food Chain Fund V	150,000,000	129,965,584	53,257,921	135,203,197	1.45	17.18	2018
Paine Schwartz Food Chain Fund VI	100,000,000	52,299,354	184,068	50,943,404	0.98	-2.98	2023

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

Permira

Permira performs buyouts of middle-market companies in Europe, North America, and Asia in the consumer, services, healthcare, technology, and climate sectors. Permira employs a sector-thematic, growth-focused strategy where it invests in market leaders that exhibit sustained growth and strong margins and can implement an ambitious value creation plan.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: London						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Permira V	\$ 160,762,572	\$ 185,587,455	\$ 398,046,251	\$ 120,255,707	2.79	21.01	2013	
Permira VI	128,610,058	130,906,122	90,833,042	167,795,180	1.98	16.23	2016	
Permira VII	144,686,315	150,182,979	12,381,023	161,477,106	1.16	5.28	2019	
Permira VIII	160,762,572	51,778,643	-	53,933,494	1.04	4.64	2022	

Public Pension Capital Management

Public Pension Capital Management developed an innovative approach to private equity investing, tailored to the needs and demands of modern public pensions in the United States. The Fund's evergreen structure allows flexibility, increased transparency, and alignment of interests of the GP and LPs. The Fund invests in middle market businesses in the technology, financial, and industrial sectors.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: New York, NY						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Public Pension Capital	\$ 285,000,000	\$ 212,009,055	\$ 181,661,183	\$ 199,068,169	1.80	21.65	2014	

Silver Lake Partners

Silver Lake Partners seeks to achieve superior risk-adjusted returns by pursuing large-scale growth and private equity investments in companies within the technology, technology-enabled, and related growth industries. The Firm partners with management teams and leverages insights from its experience and network to help build and grow great companies.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: Menlo Park, CA						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Silver Lake Partners III	\$ 100,000,000	\$ 94,827,530	\$ 215,152,014	\$ 20,382,188	2.48	18.71	2007	
Silver Lake Partners IV	100,000,000	118,069,760	167,842,825	150,510,276	2.70	21.79	2012	
Silver Lake Partners V	135,000,000	138,040,332	81,003,697	140,190,566	1.60	13.27	2017	

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

Siris Capital Group

The Siris Capital Group seek to make control-oriented, private equity, equity-related, and similar investments in mature middle-market companies primarily in North America facing transitions in the technology sector. The strategy is built on targeting mature, leading technology companies that Siris believes have both mature assets and growth assets to unlock growth vectors for long-term strategic positioning.

Asset Class: Private Equity		Strategic Allocation Category:						
Strategy: Buyout		Strategy Location: New York, NY						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Siris V	\$ 67,875,000	\$ -	\$ -	\$ -	0.00	0.00	2022	

Split Rock Partners

Split Rock Partners Management (formerly part of St. Paul Venture Capital) formed the Split Rock Partners funds to focus on private equity investments in seed and early-stage healthcare and software companies.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Venture Capital		Strategy Location: Minneapolis, MN						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Split Rock Partners	\$ 50,000,000	\$ 47,890,906	\$ 58,794,192	\$ 2,785,462	1.29	3.04	2005	
Split Rock Partners II	60,000,000	59,165,000	66,598,372	24,276,774	1.54	6.98	2008	

Stellex Capital Management

Stellex Capital Management is a private equity firm that invests in control-oriented and deep-value investments in middle market companies. The Firm makes investments in business and operating assets in North America and Europe. Stellex has a history of catalyzing growth and supporting companies to become leading enterprises through operational transformations.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: New York, NY						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Stellex Capital Partners III	\$ 200,000,000	\$ -	\$ -	\$ -	0.00	0.00	2024	

Summit Partners (SP)

Summit Partners sources and partners with entrepreneurs to help them accelerate their company's growth. The Firm specializes in three sectors: technology, healthcare and life sciences, and growth products and services. Summit Partners has a flexible investment approach and investments range from structured transactions to control buyouts. The Firm's value creation efforts center on improving operations, assisting with mergers and acquisitions, human capital management, data science expertise, and capital markets assistance.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: Boston, MA						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
SP Growth Equity Fund VIII	\$ 100,000,000	\$ 116,727,192	\$ 256,409,402	\$ 27,766,678	2.43	25.86	2011	
SP Growth Equity Fund IX	100,000,000	134,554,799	146,949,457	129,180,007	2.05	25.98	2015	
SP Growth Equity Fund X-A	150,000,000	142,351,520	33,046,188	170,273,337	1.43	15.03	2019	
SP Growth Equity Fund XI	250,000,000	69,284,174	-	78,702,665	1.14	10.18	2021	

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

TA Associates

TA Associates seeks to partner with companies to accelerate growth by leveraging its deep industry expertise, strategic resources, and global network. The Firm aims to invest in profitable, stable businesses, typically in the middle market across business services, consumer, financial services, healthcare, and technology. The Firm's flexible engagement model, with fit-for-purpose value-add competencies, can adapt to the needs of any company.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: Boston, MA						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
TA XV	\$ 80,000,000	\$ -	\$ -	\$ -	0.00	0.00	2023	

Thoma Bravo

Thoma Bravo pursues buy-and-build control buyouts of software and technology companies in North America and Western Europe. The Firm's investment philosophy is centered around working collaboratively with existing management teams to help drive operating results and innovation. Thoma Bravo supports its portfolio companies by investing in growth initiatives and strategic acquisitions designed to drive long-term value.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: Chicago, IL						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Thoma Cressey Fund VII	\$ 50,000,000	\$ 50,000,000	\$ 107,057,940	\$ 391,111	2.15	23.58	2000	
Thoma Bravo Fund XII	75,000,000	81,949,004	84,992,456	94,058,861	2.18	16.42	2016	
Thoma Bravo Fund XIII	150,000,000	184,783,234	128,118,668	218,425,858	1.88	24.72	2018	
Thoma Bravo Fund XIV	150,000,000	151,866,214	19,534,890	159,673,223	1.18	6.39	2020	
Thoma Bravo Fund XV	100,000,000	71,383,476	19,556	83,418,803	1.17	10.34	2021	

Thomas H. Lee Partners

Thomas H. Lee Partners is a private equity firm investing in middle market growth companies in identified sector opportunities across three industry groups: financial services, healthcare, and technology & business solutions. The Firm draws on its deep domain expertise and the operating capabilities of its in-house strategic resource group to create deal sourcing advantages, accelerate growth and improve operations in its portfolio companies in partnership with management.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: Boston, MA						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Thomas H. Lee Equity Fund VII	\$ 100,000,000	\$ 99,998,423	\$ 137,891,993	\$ 38,032,259	1.76	19.13	2015	
Thomas H. Lee Equity Fund VIII	150,000,000	151,125,149	163,882,980	103,236,796	1.77	30.30	2018	
Thomas H. Lee Equity Fund IX	150,000,000	85,661,483	-	89,666,157	1.05	3.44	2021	

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

TPG Inc.

TPG is a global alternative investment firm with a platform of complementary investment funds. TPG Growth invests in growth equity investments across North America, Europe, and parts of Asia. TPG Partners focuses on North American & European middle and large market buyouts across healthcare, software & enterprise technology, digital media & communications, consumer, and business services & industrials. TPG Tech Adjacencies invests primarily in companies within the internet, software, digital media, and other similar technology sectors.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: San Francisco, CA						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
TPG Growth V	\$ 150,000,000	\$ 139,821,283	\$ 15,935,738	\$ 169,747,307	1.33	15.79	2021	
TPG Growth VI	150,000,000	-	-	-	0.00	0.00	2023	
TPG Partners VII	100,000,000	102,579,118	164,371,185	33,638,132	1.93	18.82	2015	
TPG Partners VIII	150,000,000	149,632,881	35,728,113	181,296,989	1.45	18.63	2018	
TPG Partners IX	100,000,000	31,777,652	2,430,514	31,377,268	1.06	8.65	2022	
TPG Tech Adjacencies II	150,000,000	81,723,087	9,609,852	81,637,144	1.12	8.12	2021	

Vance Street Capital

Vance Street Capital focuses on control-oriented investments in North American lower middle market companies that produce highly engineered products. The Firm invests in the medical, life sciences, aerospace and defense, medical technology, and industrial technology sectors. The Firm's investments are used for growth initiatives such as a means to pursue new customers, markets, products, acquisitions, or to invest in people to supplement the management team.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: Los Angeles, CA						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Vance Street Fund IV	\$ 85,000,000	\$ -	\$ -	\$ -	0.00	0.00	2024	

Värde Partners

Värde invests in credit and value-oriented opportunities across a broad range of markets, including corporate and traded credit, specialty finance, real estate and real assets and infrastructure. The Firm's dedicated sector and asset-level expertise is complemented by an integrated platform, which enhances its ability to navigate the complexities of global markets.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Non-Control		Strategy Location: Minneapolis, MN						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Värde Fund X	\$ 150,000,000	\$ 150,000,000	\$ 253,807,303	\$ 4,997,057	1.73	9.93	2010	
Värde Fund XI	200,000,000	200,000,000	232,219,414	30,970,584	1.32	4.38	2013	
Värde Fund XIII	150,000,000	144,000,000	48,149,352	138,082,453	1.29	8.47	2018	
Värde Fund XIV	31,286,710	32,571,585	-	35,828,157	1.10	9.44	2022	

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

Vestar Capital Partners

Vestar Capital Partners is a middle-market private equity firm specializing in management buyouts, recapitalizations, and growth equity investments. The Firm is a growth-oriented investor that partners with management to form a shared vision and goals. Vestar aims to create value by investing in sales, marketing, and product and service development and innovation to support long-term growth.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Buyout		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Vestar Capital Partners VI	\$ 100,000,000	\$ 109,951,730	\$ 184,386,129	\$ 51,362,583	2.14	23.74	2011
Vestar Capital Partners VII	150,000,000	144,295,947	60,150,435	124,541,499	1.28	9.86	2017

Vista Equity Partners

Vista Equity Partners focuses on buyout transactions of enterprise software businesses and technology-enabled solutions companies. Vista Perennial pursues control acquisitions of operationally mature enterprise software businesses on a global scale with the intention of owning these businesses for a longer period of time. The Firm adds value by assisting management teams with mergers and acquisitions, company integrations, and product development.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Buyout		Strategy Location: Chicago, IL					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Vista Equity Partners Perennial	\$ 200,000,000	\$ 160,333,183	\$ 77,223	\$ 210,682,093	1.31	8.51	2020

Warburg Pincus

Warburg Pincus funds will make private equity investments in a wide variety of businesses globally. The Warburg Pincus China and China-Southeast-Asia funds are companion funds and will invest alongside the current Warburg Pincus global fund. Similarly, the Warburg Pincus Financial Sector fund will invest alongside the current global and China funds. The Firm supports portfolio companies in the areas of product and technology, go-to-market, sustainability, portfolio talent, finance and operations, and sustainability.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Growth		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Warburg Pincus China-Southeast Asia II	\$ 50,000,000	\$ 29,000,000	\$ 4,097,500	\$ 27,283,401	1.08	3.63	2019
Warburg Pincus China	45,000,000	46,935,000	19,177,200	40,481,123	1.27	5.37	2016
Warburg Pincus Financial Sector	90,000,000	90,496,274	59,957,820	106,174,473	1.84	16.91	2017
Warburg Pincus Global Growth 14	300,000,000	117,778,596	2,313,000	124,992,738	1.08	6.80	2022
Warburg Pincus Global Growth	250,000,000	236,230,722	50,491,934	294,365,298	1.46	12.16	2018
Warburg Pincus Private Equity IX	100,000,000	100,000,000	172,072,950	117,504	1.72	9.61	2005
Warburg Pincus Private Equity X	150,000,000	150,000,000	266,806,541	2,757,465	1.80	9.51	2007
Warburg Pincus Private Equity XI	200,000,000	200,342,452	292,889,821	56,357,580	1.74	11.69	2012
Warburg Pincus Private Equity XII	131,000,000	131,000,000	162,485,588	98,602,182	1.99	15.88	2015

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

Wayzata Investment Partners

Wayzata Investment Partners focuses on making investments in distressed securities where it can expect to exert significant influence on the restructuring process and potentially control the reorganized company. The Firm invests in a number of industries including real estate, shipping, and financial assets.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Distressed for Control		Strategy Location: Wayzata, MN					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Wayzata Opportunities Fund III	\$ 150,000,000	\$ 68,415,000	\$ 67,166,327	\$ 6,178,396	1.07	1.34	2012

Wellspring Capital Partners

Wellspring Capital Partners makes value-oriented, control investments in undermanaged, but strong middle-market companies based principally in North America. Wellspring looks to employ executional expertise to transform businesses and create significant value.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Buyout		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Wellspring Capital Partners VI	\$ 125,000,000	\$ 153,842,297	\$ 100,741,552	\$ 125,305,516	1.47	14.52	2016

Welsh, Carson, Anderson and Stowe (WCAS)

Welsh, Carson, Anderson and Stowe is a private equity firm focused on growth businesses in the healthcare and business/information services industries. It partners with outstanding management teams and builds value through a combination of operational improvements, growth initiatives, and strategic acquisitions.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Buyout		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
WCAS Fund XI	\$ 100,000,000	\$ 100,000,000	\$ 165,834,341	\$ 539,168	1.66	11.49	2008
WCAS Fund XII	150,000,000	150,000,000	250,367,938	117,579,673	2.45	24.78	2014
WCAS Fund XIII	250,000,000	240,414,462	89,788,704	259,014,071	1.45	18.98	2018
WCAS Fund XIV	150,000,000	52,911,099	-	45,381,162	0.86	-16.80	2022

Whitehorse Capital (WHC)

Whitehorse Capital Liquidity Partners creates preferred equity securities underpinned by private equity portfolios. Whitehorse develops these structures as a liquidity solution for both general and limited partners. The Firm aims to prioritize downside protection and capital preservation in generating returns.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation					
Strategy: Secondaries		Strategy Location: Toronto, Onatrio					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
WHC Liquidity Partners III	\$ 100,000,000	\$ 105,874,278	\$ 92,905,803	\$ 44,053,919	1.29	13.71	2019
WHC Liquidity Partners IV	100,000,000	103,332,513	61,383,626	62,342,988	1.20	12.31	2020
WHC Liquidity Partners V	100,000,000	72,220,354	27,751,870	52,184,244	1.11	11.10	2021
WHC Liquidity Partners VI	100,000,000	19,751,067	2,138,122	17,247,048	0.98	-5.56	2024

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Equity

Wind Point Partners

Wind Point makes private equity investments in North American middle-market companies. Wind Point focuses on companies in the consumer products, industrial products, and business services sectors. Collaborating with a group of established and closely aligned industry executives is key to the Firm's strategy.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: Chicago, IL						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Wind Point Partners IX	\$ 100,000,000	\$ 100,130,099	\$ 40,494,100	\$ 111,826,072	1.52	17.84	2019	
Wind Point Partners X	100,000,000	38,316,540	1,478,135	44,747,511	1.21	13.08	2022	

Windjammer Capital Investors

Windjammer Capital Investors invests equity, minority equity, and subordinated debt as a control investor in leading middle market businesses and in partnership with their management teams. The Firm targets niche market leaders with mission critical products or services and a high value to cost proposition. Windjammer provides portfolio company management teams with strategic guidance that help accelerate growth and drive operational improvements.

Asset Class: Private Equity		Strategic Allocation Category: Growth Appreciation						
Strategy: Buyout		Strategy Location: Waltham, MA						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Windjammer Mezzanine & Equity Fund II	\$ 66,708,861	\$ 55,215,684	\$ 85,949,062	\$ 222,878	1.56	9.03	2000	
Windjammer Senior Equity Fund IV	100,000,000	94,848,115	166,983,745	72,116,990	2.52	17.15	2012	
Windjammer Senior Equity Fund V	100,000,000	102,925,238	40,701,267	92,843,595	1.30	12.63	2017	
Windjammer Capital Fund VI	175,000,000	3,687,015	-	1,929,706	0.52	-86.4	2023	

Private Credit

Audax Group

Audax invests in a diversified portfolio of mezzanine securities, with a specific focus on the middle market. Audax's deal flow is generated through a combination of direct marketing efforts to middle market private equity sponsors and long-standing relationships with numerous deal intermediaries.

Asset Class: Private Credit		Strategic Allocation Category: Growth Appreciation						
Strategy: Mezzanine		Strategy Location: New York, NY						
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year	
Audax Mezzanine Fund III	\$ 100,000,000	\$ 105,485,676	\$ 133,977,984	\$ 5,588,303	1.32	9.70	2010	
Audax Mezzanine Fund IV-A	100,000,000	94,498,024	88,014,468	28,948,960	1.24	10.56	2015	
Audax Mezzanine Fund V	150,000,000	51,301,101	13,606,729	46,054,172	1.16	15.18	2020	

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Credit

Avenue Capital Partners

Avenue Capital Partner's Energy Opportunities Funds make investments in debt, equity and other obligations of North American energy and utility companies experiencing financial distress.

Asset Class: Private Credit		Strategic Allocation Category: Growth Appreciation					
Strategy: Non-Control		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Avenue Energy Opportunities Fund	\$ 100,000,000	\$ 100,977,328	\$ 117,719,235	\$ 41,848,611	1.58	6.98	2014
Avenue Energy Opportunities Fund II	100,000,000	100,000,000	150,008,189	50,698,165	2.01	15.13	2017

BlackRock

BlackRock invests primarily in senior secured income-generating debt and debt-related instruments. It is expected the investments will be in medium-sized companies domiciled in, or exercising the main part of their economic activity in the United States.

Asset Class: Private Credit		Strategic Allocation Category: Growth Appreciation					
Strategy: Direct Lending		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
BR Middle Market Senior Fund	\$ 97,500,000	\$ 94,266,552	\$ 38,697,495	\$ 91,078,268	1.38	8.76	2018

Brookfield Asset Management

Brookfield's lending activities will be focused principally on high-quality commercial real estate assets in strategic locations in the U.S and selectively in Europe. As one of the world's largest leading real estate managers, Brookfield finances commercial properties in markets and sectors in which it has significant experience and operating platforms.

Asset Class: Private Credit		Strategic Allocation Category: Growth Appreciation					
Strategy: Direct Lending		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Brookfield Real Estate Finance Fund VI	\$ 200,000,000	\$ 111,376,381	\$ 40,933,266	\$ 82,190,735	1.11	10.53	2021

Castlelake

Castlelake seeks to make stable yield investments in the global aviation finance market. The Fund will seek to achieve attractive risk-adjusted rates of return while minimizing downside risk by investing in high quality aircraft and aircraft-related assets. Castlelake was acquired by Brookfield Asset Management in 2024.

Asset Class: Private Credit		Strategic Allocation Category: Growth Appreciation					
Strategy: Specialty Finance		Strategy Location: Minneapolis, MN					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Castlelake Aviation V Stable Yield	\$ 100,000,000	\$ -	\$ -	\$ -	0.00	0.00	2023

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Credit

Energy Capital Partners

Energy Capital Partners focuses on primarily credit-oriented opportunities in high quality North American-based assets and business across the entire energy infrastructure value chain. Examples include traditional and renewable power, midstream pipeline, storage, transportation assets, environmental infrastructure, and energy-related assets and equipment.

Asset Class: Private Credit		Strategic Allocation Category: Growth Appreciation					
Strategy: Specialty Finance		Strategy Location: Short Hills, NJ					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Energy Capital Credit Solutions II-A	\$ 28,087,500	\$ 39,604,317	\$ 21,241,350	\$ 23,377,582	1.13	7.26	2018

Gold Hill Venture Lending Partners

Gold Hill Venture Lending Partners generates returns through secured loans, gains on the sales of securities acquired upon the exercise of warrants, and through the disposition of direct equity investments.

Asset Class: Private Credit		Strategic Allocation Category: Growth Appreciation					
Strategy: Mezzanine		Strategy Location: Santa Clara, CA					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Gold Hill 2008	\$ 25,852,584	\$ 25,852,584	\$ 48,393,297	\$ 2,536,736	1.97	14.33	2008

HPS Investment Partners

HPS Investment Partners is a global credit investment firm. Founded in 2007, HPS manages various strategies that invest across the capital structure, from syndicated loans and high yield bonds to privately negotiated senior secured debt and mezzanine investments, asset-based leasing, and private equity.

Asset Class: Private Credit		Strategic Allocation Category: Growth Appreciation					
Strategy: Mezzanine		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
HPS Mezzanine Partners 2019	\$ 100,000,000	\$ 102,754,406	\$ 47,472,727	\$ 87,660,117	1.32	10.98	2019
HPS Strategic Investment Partners V	100,000,000	49,973,680	5,619,739	52,936,294	1.17	16.90	2022

KKR

KKR is a global investment firm with a variety of private equity investment products. The KKR Lending Partners strategy makes investments primarily in the senior debt securities of middle-market U.S. companies. The Funds will focus on originated transactions into both sponsored and non-sponsored companies.

Asset Class: Private Credit		Strategic Allocation Category: Growth Appreciation					
Strategy: Direct Lending		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
KKR Lending Partners II	\$ 75,000,000	\$ 87,059,946	\$ 85,209,374	\$ 4,622,700	1.03	1.52	2015
KKR Lending Partners III	199,000,000	295,699,266	276,901,654	93,931,317	1.25	13.70	2017

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Credit

LBC Credit Partners

LBC Credit Partners originates and manages a diversified portfolio of high-yielding loans in the middle market. LBC originates and manages investments with maturities ranging generally from three to seven years. LBC was acquired by CIFC Asset Management in 2021.

Asset Class: Private Credit		Strategic Allocation Category: Growth Appreciation					
Strategy: Direct Lending		Strategy Location: Philadelphia, PA					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
LBC Credit Partners IV	\$ 100,000,000	\$ 120,040,574	\$ 126,106,791	\$ 19,122,870	1.21	8.98	2016
LBC Credit Partners V	100,000,000	88,758,690	56,840,123	57,445,163	1.29	15.06	2019

Marathon Asset Management

Marathon Asset Management is a global asset manager that focuses on investing in public and private credit markets. Marathon Secured Private Strategies seeks to provide capital solutions to creditworthy and underserved borrowers and to capitalize on complexity and illiquidity premiums found within non-traditional lending channels.

Asset Class: Private Credit		Strategic Allocation Category: Growth Appreciation					
Strategy: Specialty Finance		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Secured Private Strategies Fund II	\$ 100,000,000	\$ 96,022,008	\$ 21,209,395	\$ 116,591,040	1.44	10.63	2019
Secured Private Strategies Fund III	100,000,000	46,000,000	182,698	48,484,092	1.06	6.14	2022

Merit Capital Partners

Merit Capital Partners invests primarily in fixed-rate subordinated debt securities. These securities are generally purchased with a significant equity component in the form of warrants, common stock, or contingent interest.

Asset Class: Private Credit		Strategic Allocation Category: Growth Appreciation					
Strategy: Mezzanine		Strategy Location: Chicago, IL					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Merit Mezzanine Fund V	\$ 75,000,000	\$ 72,306,122	\$ 114,022,067	\$ 10,950,826	1.73	10.37	2009
Merit Mezzanine Fund VI	100,000,000	92,629,096	105,492,950	53,699,429	1.72	16.68	2016
Merit Mezzanine Fund VII	100,000,000	45,031,818	818,182	49,369,778	1.11	10.39	2020

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Credit

Oaktree Capital Management

Oaktree Capital Management's Opportunities Funds invest in the debt or equity of companies during periods of financial distress. Oaktree's Real Estate Debt Funds seek to achieve attractive risk-adjusted returns and generate current income through investments in real estate-related debt with an emphasis on the United States. The investment themes for the strategy are private loan origination, regulatory-driven opportunities, real estate structured credit, and real estate-related corporate debt. Oaktree Capital Management was acquired by Brookfield Asset Management in 2019.

Asset Class: Private Credit		Strategic Allocation Category: Growth Appreciation					
Strategy: Direct Lending		Strategy Location: Los Angeles, CA					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Oaktree Opportunities Fund X	\$ 50,000,000	\$ 46,500,021	\$ 44,944,660	\$ 24,951,526	1.50	8.97	2015
Oaktree Opportunities Fund Xb	100,000,000	75,003,445	10,100,000	106,896,141	1.56	11.83	2015
Oaktree Opportunities Fund XI	300,000,000	255,001,607	11,009,225	301,224,667	1.22	9.99	2020
OCM Real Estate Debt Fund, III	200,000,000	151,940,899	33,460,281	135,441,288	1.11	7.15	2020

PGIM

PGIM (fka Prudential Capital Partners) makes mezzanine investments, typically including convertible debt, preferred stock, and warrants, with a specific focus on middle market companies. Investments will generally be made to facilitate the financing of recapitalizations, acquisitions, internal growth opportunities and buyouts.

Asset Class: Private Credit		Strategic Allocation Category: Growth Appreciation					
Strategy: Mezzanine		Strategy Location: Chicago, IL					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Prudential Capital Partners II	\$ 100,000,000	\$ 97,930,132	\$ 145,671,152	\$ 420,893	1.49	9.01	2005
Prudential Capital Partners III	100,000,000	102,894,352	174,862,733	2,356,084	1.72	14.07	2009
Prudential Capital Partners IV	100,000,000	114,854,058	143,030,415	15,929,997	1.38	8.97	2012
Prudential Capital Partners V	150,000,000	160,137,856	120,568,854	77,472,862	1.24	6.88	2016
Prudential Capital Partners VI	150,000,000	79,638,283	13,772,661	82,183,411	1.20	14.77	2020

PIMCO

The PIMCO Bravo funds were inherited from the Duluth Teachers Retirement Fund Administration in 2015. PIMCO is a global investment management firm with a variety of public and private investment products. The PIMCO Bravo Funds primarily invest in distressed commercial and residential mortgage credit.

Asset Class: Private Credit		Strategic Allocation Category: Growth Appreciation					
Strategy: Non-Control		Strategy Location: Newport Beach, CA					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Pimco Bravo Fund OnShore Feeder II	\$ 5,000,000	\$ 4,501,479	\$ 5,714,432	\$ 263,213	1.33	5.94	2014

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Credit

Sixth Street

Sixth Street makes global credit and credit-related investments, generally in opportunities with significant downside protection and cash yield. The Opportunities and TAO Funds pursue thematic, actively managed investments exhibiting downside protection across three major areas: control-oriented opportunities, asset opportunities and corporate dislocations.

Asset Class: Private Credit		Strategic Allocation Category: Growth Appreciation					
Strategy: Non-Control		Strategy Location: San Francisco, CA					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
TSSP Opportunities Partners IV (A)	\$ 50,000,000	\$ 40,386,311	\$ 18,556,106	\$ 37,151,247	1.38	10.53	2018
Sixth Street Opportunities Partners V	75,000,000	47,450,751	712,372	48,679,539	1.04	3.52	2021
Sixth Street TAO Partners (B)	50,000,000	55,760,727	24,582,130	46,726,427	1.28	8.71	2018
Sixth Street TAO Partners (D)	100,000,000	69,929,760	17,824,346	74,252,349	1.32	12.58	2018
Sixth Street TAO Partners (B) Vintage	100,000,000	27,518,863	-	27,877,516	1.01	5.57	2023

Summit Partners

Summit Partners makes subordinated debt investments, typically with equity features. These yield-oriented investments provide current income over the life of the investment with the potential for additional returns. The Funds invest in many of the same companies as Summit Partners' flagship growth equity funds.

Asset Class: Private Credit		Strategic Allocation Category: Growth Appreciation					
Strategy: Mezzanine		Strategy Location: Boston, MA					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Summit Subordinated Debt Fund III	\$ 45,000,000	\$ 44,088,494	\$ 62,804,226	\$ 552,965	1.44	8.60	2004
Summit Subordinated Debt Fund IV	50,000,000	55,914,003	74,257,864	1,782,128	1.36	9.78	2008

TCW Asset Management

TCW Asset Management makes investments in public and private companies. TCW Direct Lending pursues a strategy of originating and investing in loans to middle-market companies primarily in the United States. The loans are generally structured as senior-secured, floating rate loans.

Asset Class: Private Credit		Strategic Allocation Category: Growth Appreciation					
Strategy: Direct Lending		Strategy Location: Los Angeles, CA					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
TCW Direct Lending LLC	\$ 89,570,000	\$ 83,599,652	\$ 90,921,109	\$ 18,016,278	1.30	8.13	2014
TCW Direct Lending VII	100,000,000	90,919,484	72,414,724	41,994,766	1.26	8.47	2018

Combined Funds

Private Markets Program: Investment Manager Summaries

Private Credit

Torchlight Investors

Torchlight Investors provides investment management services to institutional clients seeking exposure to commercial real estate (CRE) debt markets. The Firm has invested across a broad array of commercial real estate investments including senior mortgages, mezzanine loans, preferred equity, equity, investment grade and non-investment grade CMBS.

Asset Class: Private Credit		Strategic Allocation Category: Growth Appreciation					
Strategy: Specialty Finance		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Torchlight Debt Fund VIII	\$ 150,000,000	\$ 60,000,000	\$ -	\$ 60,084,120	1.00	0.24	2023

Real Assets

BlackRock (BR)

BlackRock Global Renewable Power strategy invests in a diversified portfolio of renewable power generation projects in countries within the Organization for Economic Cooperation and Development (OECD). The Global Renewable Power strategy has invested in solar, wind, storage and transmission, and electric vehicle charging assets across the development lifecycle.

Asset Class: Real Asset		Strategic Allocation Category: Real Assets					
Strategy: Infrastructure		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
BR Global Renewable Power Fund II	\$ 98,500,000	\$ 108,982,081	\$ 100,944,099	\$ 33,996,555	1.24	6.13	2017
BR Global Renewable Power Infrastructure III	100,000,000	78,142,388	2,865,259	88,215,957	1.17	9.46	2019

EIG Global Energy Partners

EIG Global Energy Partners focuses on making mezzanine and equity investments in energy and energy-related infrastructure projects and companies on a global basis. The Firm's deep sector expertise and internal technical capabilities permit it to structure creative solutions for industry partners in complex situations. EIG was formally spun out of TCW in 2011.

Asset Class: Real Asset		Strategic Allocation Category: Real Assets					
Strategy: Energy		Strategy Location: Los Angeles, CA					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
EIG Energy Fund XIV	\$ 100,000,000	\$ 113,459,470	\$ 95,309,310	\$ 3,476,130	0.87	-4.99	2007
EIG Energy Fund XV	150,000,000	161,570,371	159,449,534	9,932,175	1.05	1.14	2010
EIG Energy Fund XVI	200,000,000	198,224,731	146,249,534	92,422,328	1.20	4.09	2013

Combined Funds

Private Markets Program: Investment Manager Summaries

Real Assets

EnCap Investments

EnCap Investments is a provider of growth capital to independent energy companies across the midstream, upstream, and energy transition sectors. The Energy Capital Funds make privately negotiated equity and equity-linked investments in the oil and gas industry. Central to EnCap's investment strategy is the Firm's ability to identify and attract the industry's premier management teams.

Asset Class: Real Asset		Strategic Allocation Category: Real Assets					
Strategy: Energy		Strategy Location: Houston, TX					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
EnCap Energy Capital Fund VIII	\$ 100,000,000	\$ 103,367,281	\$ 68,667,631	\$ 37,570,682	1.03	0.49	2010
EnCap Energy Capital Fund IX	100,000,000	113,725,245	150,576,908	23,281,520	1.53	10.97	2012
EnCap Energy Capital Fund X	100,000,000	106,019,562	144,725,392	62,947,526	1.96	15.73	2015

Energy Capital Partners

Energy Capital Partners makes value-added, primarily control investments in existing and new-build energy infrastructure projects, primarily in North America. Its focus is on power and renewable generation, midstream, and environmental infrastructure assets.

Asset Class: Real Asset		Strategic Allocation Category: Real Assets					
Strategy: Energy		Strategy Location: Short Hills, NJ					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Energy Capital Partners III	\$ 200,000,000	\$ 239,038,835	\$ 314,765,322	\$ 56,931,329	1.55	11.66	2013
Energy Capital Partners IV-A	150,000,000	167,260,945	61,140,016	177,739,193	1.43	14.80	2017
Energy Capital Partners V	150,000,000	61,901,204	4,181,733	67,543,425	1.16	16.61	2023

Energy & Minerals Group (EMG)

Energy & Minerals Group makes direct investments in selected areas of the energy infrastructure and natural resources sectors, primarily targeting the midstream energy sector and all facets of the mining, minerals, and related power sectors. Due to the Firm's extensive experience operating assets, EMG has a strong emphasis on risk identification, management, and mitigation.

Asset Class: Real Asset		Strategic Allocation Category: Real Assets					
Strategy: Energy		Strategy Location: Houston, TX					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
NGP Midstream & Resources	\$ 100,000,000	\$ 103,590,296	\$ 179,705,647	\$ 2,247,557	1.76	13.10	2007
The EMG Fund II	100,000,000	109,697,789	111,493,210	104,876,638	1.97	11.40	2011
The EMG Fund III	200,000,000	208,719,926	39,535,987	104,455,570	0.69	-4.76	2014
The EMG Fund IV	150,000,000	166,160,582	96,476,407	150,928,338	1.49	8.14	2015
The EMG Fund V	112,500,000	95,435,275	3,658,916	143,002,438	1.54	10.83	2019
The EMG Fund V Accordion	17,500,000	17,233,384	1,550,859	25,379,029	1.56	11.23	2019

Combined Funds

Private Markets Program: Investment Manager Summaries

Real Assets

EnerVest Energy

EnerVest Energy focuses on acquiring and operating oil and gas properties, managing and developing the properties, reducing costs, and selling the assets. On occasion, the Firm may also invest in equity interests of companies in order to acquire its assets.

Asset Class: Real Asset		Strategic Allocation Category: Real Assets					
Strategy: Energy		Strategy Location: Houston, TX					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
EnerVest Energy Institutional Fund XIV	\$ 100,000,000	\$ 99,986,083	\$ 111,388,723	\$ 51,031,104	1.62	10.07	2015

First Reserve

The First Reserve funds investment strategy is to create diversified portfolios of oil and gas and other energy-related investments. The Firm focuses on the resources, equipment and services, midstream, and downstream areas of the energy industry.

Asset Class: Real Asset		Strategic Allocation Category: Real Assets					
Strategy: Energy		Strategy Location: Stamford, CT					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
First Reserve Fund XI	\$ 150,000,000	\$ 150,292,121	\$ 100,059,903	\$ 36,526	0.67	-8.78	2006
First Reserve Fund XII	150,000,000	165,617,044	85,669,271	98,469	0.52	-17.99	2008
First Reserve Fund XIII	200,000,000	238,871,330	133,696,335	81,890,151	0.90	-2.78	2013

KKR

KKR Global Infrastructure Investors seeks to generate attractive risk-adjusted returns by focusing on critical infrastructure investments with low volatility and strong downside protection. KKR makes investments in existing assets and businesses located in OECD countries.

Asset Class: Real Asset		Strategic Allocation Category: Real Assets					
Strategy: Infrastructure		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
KKR Global Infrastructure Investors III	\$ 149,850,000	\$ 142,807,803	\$ 49,648,595	\$ 148,561,433	1.39	11.65	2018
KKR Global Infrastructure Investors IV	100,000,000	63,940,917	2,206,297	68,402,595	1.10	6.64	2021
KKR Global Infrastructure Investors V	200,000,000	-	-	-	0.00	0.00	2024

Combined Funds

Private Markets Program: Investment Manager Summaries

Real Assets

Merit Energy Partners

Merit Energy Partners funds invest in producing oil and gas properties operated by the company. Merit's goal is to provide low-risk energy exposure and attractive long-term returns by acquiring, developing, and operating high-quality, mature producing oil and gas properties.

Asset Class: Real Asset		Strategic Allocation Category: Real Assets					
Strategy: Energy		Strategy Location: Dallas, TX					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Merit Energy Partners F-II	\$ 100,000,000	\$ 59,522,861	\$ 36,375,957	\$ 1,426,279	0.64	-6.60	2006
Merit Energy Partners H	100,000,000	100,000,000	31,202,786	39,486,576	0.71	-4.47	2011
Merit Energy Partners I	169,721,518	169,721,518	126,639,060	149,194,735	1.63	8.49	2014
Merit Energy Partners K	150,000,000	111,050,533	39,663,642	136,083,403	1.58	23.95	2019

Natural Gas Partners

Natural Gas Partners (NGP) makes investments in the energy industry that are related to the production and development of crude oil and natural gas in North America. NGP focuses on companies that acquire and operate assets in "core" areas within oil and gas basins that NGP believes can generate attractive rates of return with a lower relative risk profile.

Asset Class: Real Asset		Strategic Allocation Category: Real Assets					
Strategy: Energy		Strategy Location: Dallas, TX					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Natural Gas Partners IX	\$ 150,000,000	\$ 174,005,353	\$ 249,411,654	\$ 90,845	1.43	12.04	2007
NGP Natural Resources X	150,000,000	149,697,949	135,778,600	12,603,644	0.99	-0.23	2011
Natural Gas Capital Resources XI	150,000,000	157,334,624	175,061,007	77,811,652	1.61	10.32	2014
NGP Natural Resources XII	149,500,000	124,160,491	119,938,796	83,489,688	1.64	14.83	2017

Sheridan Production Partners

Sheridan Production Partners funds pursue a strategy of acquiring a portfolio of currently producing oil and gas properties and optimizing the operations of those properties through production acceleration and recovery enhancement, appropriate use of capital reinvestment, and aggressive cost control.

Asset Class: Real Asset		Strategic Allocation Category: Real Assets					
Strategy: Energy		Strategy Location: Houston, TX					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Sheridan Production Partners III-B	\$ 100,000,000	\$ 34,353,005	\$ 36,025,000	\$ 22,281,000	1.70	11.56	2014

Combined Funds

Private Markets Program: Investment Manager Summaries

Real Estate

Blackstone Real Estate Partners

Blackstone Real Estate Partners makes a broad range of opportunistic real estate and real estate-related investments globally. It has a “buy it, fix it, sell it” strategy of targeting complicated assets and situations, creating value through hands-on ownership, and selling assets once asset management objectives are achieved. The flagship funds focus primarily on the U.S. and Canada and will also participate in 20% of the amount of each real estate investment to be made by the BREP Europe and BREP Asia strategies. BREP Europe and BREP Asia funds pursue the same strategy in their respective continents.

Asset Class: Real Estate		Strategic Allocation Category: Growth Appreciation					
Strategy: Opportunistic		Strategy Location: New York, NY, and Hong Kong					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Blackstone Real Estate Partners Asia II	\$ 74,500,000	\$ 72,544,518	\$ 17,497,040	\$ 66,613,217	1.16	4.63	2017
Blackstone Real Estate Partners Asia III	100,000,000	20,325,284	2,368	15,417,934	0.76	-18.07	2021
Blackstone Real Estate Partners Europe VI	100,000,000	9,202,119	-	7,732,936	0.84	-44.37	2023
Blackstone Real Estate Partners V	100,000,000	104,217,981	209,143,624	120,951	2.01	10.84	2006
Blackstone Real Estate Partners VI	100,000,000	109,582,860	220,260,491	75,245	2.01	13.06	2007
Blackstone Real Estate Partners VII	100,000,000	115,642,883	183,195,356	15,472,712	1.72	14.42	2011
Blackstone Real Estate Partners VIII	150,000,000	177,561,238	182,835,498	104,416,868	1.62	13.77	2015
Blackstone Real Estate Partners IX	300,000,000	325,336,627	110,744,880	332,884,647	1.36	14.16	2018
Blackstone Real Estate Partners X	200,000,000	51,238,528	-	48,364,659	0.94	-20.51	2022

Blackstone Strategic Partners

Blackstone Strategic Partners funds focus on purchasing secondary interests of real estate funds. The Funds follow a strategy similar to that of the Strategic Partners private equity funds, in which the SBI is also an investor. Credit Suisse sold the Strategic Partners funds platform to The Blackstone Group in 2013.

Asset Class: Real Estate		Strategic Allocation Category: Growth Appreciation					
Strategy: Secondaries		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Blackstone Strategic Partners IV RE	\$ 50,000,000	\$ 51,507,991	\$ 50,981,752	\$ 68,306	0.99	-0.14	2008

Brookfield Asset Management Inc.

Brookfield Asset Management’s disciplined real estate investment approach is focused on acquiring high-quality investments on a value basis and adding value through operational enhancements. Brookfield has well-established operations in more than 30 countries on five continents which enable the Firm to readily invest wherever the most attractive opportunities emerge.

Asset Class: Real Estate		Strategic Allocation Category: Growth Appreciation					
Strategy: Opportunistic		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Brookfield Strategic Real Estate Partners IV	\$ 300,000,000	\$ 203,488,087	\$ 20,592,071	\$ 196,417,032	1.07	5.47	2021
Brookfield Strategic Real Estate Partners V	100,000,000	-	-	-	0.00	0.00	2023

Combined Funds

Private Markets Program: Investment Manager Summaries

Real Estate

Carlyle Group

Carlyle Realty Partners focuses on making opportunistic real estate investments in the United States. The strategy predominantly focuses on demographic-driven sectors and property types that are less correlated with the economic cycle, such as multifamily, self-storage, and student housing.

Asset Class: Real Estate		Strategic Allocation Category: Growth Appreciation					
Strategy: Opportunistic		Strategy Location: Washington, D.C.					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Carlyle Realty Partners VIII	\$ 150,000,000	\$ 129,337,438	\$ 119,891,303	\$ 70,751,004	1.47	22.19	2017
Carlyle Realty Partners IX	300,000,000	96,447,399	1,208,226	87,660,923	0.92	-9.68	2021

KKR

KKR's Real Estate Partners' strategy focuses on making opportunistic real estate and real estate-related investments primarily in the United States. The investment team pursues opportunities where it can trade situational complexity for a more attractive basis in an asset, company, or portfolio.

Asset Class: Real Estate		Strategic Allocation Category: Growth Appreciation					
Strategy: Opportunistic		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
KKR Real Estate Partners Americas III	\$ 125,000,000	\$ 90,960,062	\$ 9,045,432	\$ 77,310,509	0.95	-2.75	2021

Landmark Partners, an Ares Company

Landmark Partners makes secondary investments in various types of real estate and real estate-related entities. The strategy intends to be diversified across global geography, fund vintage, property sector, and financial sponsor. Ares acquired Landmark Partners in 2021.

Asset Class: Real Estate		Strategic Allocation Category: Growth Appreciation					
Strategy: Secondaries		Strategy Location: Boston, MA					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Landmark Real Estate Partners VIII	\$ 149,500,000	\$ 118,787,176	\$ 69,637,848	\$ 83,093,431	1.29	11.77	2016
Landmark Real Estate Partners IX	100,000,000	2,905,317	-	1,202,499	0.41	-58.61	2021

Lubert-Adler

Lubert-Adler invests in U.S. commercial real estate across the following property types: multifamily, retail, hospitality, office, and industrial. The Firm will access properties via preferred equity, pre-leased or distressed credit, and common equity.

Asset Class: Real Estate		Strategic Allocation Category: Growth Appreciation					
Strategy: Value-Add		Strategy Location: Philadelphia, PA					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Lubert-Adler Real Estate Fund VII	\$ 74,147,868	\$ 67,585,213	\$ 86,651,406	\$ 17,358,692	1.54	14.95	2017
Lubert-Adler Recovery & Enhancement Capital Fund	100,000,000	87,335,030	9,976,811.00	88,931,372	1.13	8.01	2021

Combined Funds

Private Markets Program: Investment Manager Summaries

Real Estate

Oaktree Capital Management

Oaktree's opportunistic real estate strategy targets attractive risk-adjusted opportunities in value and growth investments across the team's five areas of investment focus: commercial, residential, opportunistic credit, corporate platforms, and global ex-U.S. investments. Oaktree Capital Management was acquired by Brookfield Asset Management in 2019.

Asset Class: Real Estate		Strategic Allocation Category: Growth Appreciation					
Strategy: Opportunistic		Strategy Location: Los Angeles, CA					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Oaktree Real Estate Opportunities Fund VIII	\$ 200,000,000	\$ 160,475,519	\$ 37,690,052	\$ 135,088,036	1.08	6.19	2020

Rockpoint

Rockpoint invests in high-quality commercial real estate properties located in U.S. gateway coastal markets typically with the opportunity to increase value through asset management, revenue enhancement, and expense reduction. The Firm focuses on residential, industrial, office, and hospitality properties.

Asset Class: Real Estate		Strategic Allocation Category: Growth Appreciation					
Strategy: Opportunistic		Strategy Location: Boston, MA					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Rockpoint Real Estate Fund V	\$ 100,000,000	\$ 103,791,812	\$ 58,755,434	\$ 36,721,425	0.92	-2.25	2014
Rockpoint Real Estate Fund VI	100,000,000	91,592,760	11,126,725	93,119,855	1.14	5.72	2019

Rockwood

Rockwood focuses on making value-add investments in commercial real estate in the U.S. Rockwood targets office, retail, industrial, and multifamily residential assets. The Firm seeks to employ an active asset management strategy to reposition, re-lease, rehabilitate, and/or develop real estate assets.

Asset Class: Real Estate		Strategic Allocation Category: Growth Appreciation					
Strategy: Value-Add		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Rockwood Capital RE Partners X	\$ 100,000,000	\$ 99,845,593	\$ 57,507,174	\$ 38,898,467	0.97	-0.99	2015
Rockwood Capital RE Partners XI	100,000,000	82,807,279	4,276,848	72,903,016	0.93	-2.93	2019

Silverpeak Real Estate Partners

Silverpeak invests in properties, real estate companies, and service businesses ancillary to the real estate industry on a global basis. The Firm adds value through a disciplined investment process, deep industry relationships, and collaborative partnerships that often lead to repeat operating and capital partnerships.

Asset Class: Real Estate		Strategic Allocation Category: Growth Appreciation					
Strategy: Opportunistic		Strategy Location: New York, NY					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Silverpeak Legacy Pension Partners II	\$ 75,000,000	\$ 73,069,012	\$ 92,033,940	\$ 428,081	1.27	4.17	2005
Silverpeak Legacy Pension Partners III	150,000,000	70,940,363	17,261,685	2,754,255	0.28	-12.02	2008

Combined Funds

Private Markets Program: Investment Manager Summaries

Real Estate

TA Realty

TA Realty funds invest in small to medium-sized properties in the U.S. diversified by property type, geography, industry exposure, and tenancy. The Firm adds value by employing active, property-level operating expertise. The Firm focuses on industrial, multifamily, retail, office, and data center properties.

Asset Class: Real Estate		Strategic Allocation Category: Growth Appreciation					
Strategy: Value-Add		Strategy Location: Boston, MA					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
Realty Associates Fund XI	\$ 100,000,000	\$ 100,000,000	\$ 159,525,391	727,960	1.60	10.77	2015
Realty Associates Fund XII	100,000,000	100,000,000	19,250,838	126,122,478	1.45	12.63	2018
Realty Associates Fund XIII	150,000,000	82,500,000	-	73,212,397	0.89	-31.60	2023

TPG Inc.

TPG Angelo Gordon's real estate equity strategies focus on acquiring sub-performing commercial real estate across a range of geographies and product types. The flagship Realty funds invest in the U.S. and receive pro-rata shares of Asia and Europe transactions, subject to a cap. The Asia Realty and Europe Realty funds invest in their respective geographies. Angelo Gordon was acquired by TPG in 2023.

Asset Class: Real Estate		Strategic Allocation Category: Growth Appreciation					
Strategy: Opportunistic		Strategy Location: New York, NY, London, and Seoul					
Fund	SBI Commitment	Total Contribution	Distributions	Market Value	Net MOIC ¹	IRR ²	Vintage Year
TPG AG Asia Realty Fund III	\$ 50,000,000	\$ 47,587,261	\$ 47,125,000	\$ 14,625,170	1.30	8.76	2016
TPG AG Asia Realty Fund IV	100,000,000	88,789,286	65,750,000	55,906,307	1.37	13.00	2018
TPG AG Asia Realty Fund V	100,000,000	17,177,470	-	17,285,944	1.01	0.90	2023
TPG AG Europe Realty Fund II	75,000,000	68,635,121	33,769,976	62,038,225	1.40	7.97	2018
TPG AG Europe Realty Fund III	75,000,000	56,328,427	3,750,000	63,988,334	1.20	8.68	2020
TPG AG Europe Realty Fund IV	100,000,000	-	-	-	0.00	0.00	2024
TPG AG Realty Fund IX	100,000,000	92,141,126	91,250,000	26,075,831	1.27	5.49	2014
TPG AG Realty Fund X	150,000,000	135,224,254	77,637,431	99,050,739	1.31	11.64	2018

¹MOIC: Multiple of Invested Capital is calculated by dividing the sum of the Fund's realized and unrealized value by the total dollar amount invested.

²IRR: The Internal Rate of Return is a discount rate calculated from making the net present value of all cash flows equal to zero over the life of the investment.

Combined Funds

Private Markets Program: Investment Manager Summaries

Stock Distributions Manager

T. Rowe Price

T. Rowe Price manages stock distributions from the SBI's private markets limited partnerships. T. Rowe Price has extensive research capabilities in the small capitalization company area. In addition, the Firm has a large trading staff with particular expertise in the trading of small capitalization and illiquid stocks.

Asset Class: In-Kind Stock Distribution Manager					
Strategy Location: Baltimore, MD					
Fund	Beginning Balance	Receipts	Sales	Unrealized G/L	Ending Balance
T. Rowe Price SBI Private Markets	\$ -	\$ 36,778,597	\$ 13,920,159	\$ 18,416,355	\$ 40,843,606

Private Markets Uninvested Allocation Managers

S&P 500 Mandate

BlackRock Institutional Trust Company, N.A.

Product Name:	S&P 500 Passive Equity	Benchmark:	S&P 500 Index
Product Inception Date:	December 1977	Investment Style:	Large-Cap Core
Firm Assets (6/30/24):	\$10.6 trillion	Fundamental/Quant:	N/A
Product Assets (6/30/24):	\$1.2 trillion	Investment Process:	Index Replication
Product Location:	San Francisco, CA	Expected # of Holdings:	Approx. 500
Date Funded:	December 2020	Expected Ann. Turnover:	3-5%

For this passive account, BlackRock seeks to match the total rate of return of the S&P 500 Index. BlackRock aims to fully replicate the benchmark when managing against this index. BlackRock uses its proprietary risk management and optimization tools to help manage day-to-day activity in an attempt to keep transaction costs low. This account may be funded with part or all of the Uninvested Allocation when the Private Markets program is below its strategic target. The account is not funded when the program is at or above its target.

Cash Overlay Mandate

NISA Investment Advisors LLC

Product Name:	Beta Overlay	Benchmark:	S&P 500 Index
Product Inception Date:	November 1998	Investment Style:	Large-Cap Core
Firm Assets (6/30/24):	\$273.9 billion (physical) + \$163.9 billion (notional)	Fundamental/Quant:	N/A
Product Assets (6/30/24):	\$60.2 billion (notional)	Investment Process:	Futures-based Cash Securitization
Product Location:	St. Louis, MO	Expected # of Holdings:	<10
Date Funded:	December 2020	Expected Ann. Turnover:	N/A

NISA manages a futures-based cash securitization program. In this program, derivatives are used to reduce cash drag and seek to increase expected returns of the overall Plan using a flexible and lower cost separately managed account framework. NISA's investment philosophy for overlay strategies is to seek to achieve specified market performance and carefully manage costs through efficient execution, rather than initiating active risk in pursuit of excess market returns. NISA manages some or all of the Uninvested Allocation to an S&P 500 mandate when the Private Markets Program is below its strategic target and holds cash when the program is at or above target.

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Other Retirement Funds Investment Program Overview

Overview

In addition to investing the assets of the Combined Funds, the SBI is responsible for making investment options available to other public retirement plans. As of June 30, 2024, these plans represented approximately \$1.5 billion in assets. Figure 45 lists the plans and assets that comprise this group.

The investment options available to each plan will vary. Some of the retirement plans invest in one or more of the investment options provided and make investment decisions at the plan level. There are also retirement plans in this group where the individual participant chooses the investment options that meet their risk and return objectives.

Retirement plans that are not invested in the Combined Funds use investment options from the Supplemental Investment Fund (SIF) platform or investment options that are uniquely designed for participant-directed plans. The SIF platform is described immediately following, and the other participant-directed options are described on pages 116-117.

Supplemental Investment Fund (SIF) Investment Options

The SIF platform was established in [Minnesota Statutes, Section 11A.17](#), and enables the SBI to provide efficient investment solutions to the diverse group of retirement and tax-advantaged savings plans it serves. Other public retirement funds are identified on pages 116-117 and tax-advantaged savings plans are identified on pages 127-128.

Figure 45. Other Retirement Funds Assets as of June 30, 2024

Plan Sponsor	Market Value (in Thousands)
PERA Defined Contribution (DC) Plan	\$101,952.0
St. Paul Teachers' Retirement Fund	\$400,390.1
Statewide Volunteer Firefighter Plan	\$183,899.4
Unclassified Retirement Plan	\$402,103.4
Volunteer Fire Relief Associations	\$397,945.6
Other Retirement Funds	\$1,486,290.5

SIF Asset Class Pools

The SBI aggregates retirement assets into several “investment pools” which are separated primarily by asset class. Ownership in these pools is represented by a participation interest. This structure allows participating plans to invest in the same investment pools as the Combined Funds and benefit from access to high-quality institutional management, while maintaining operational and cost efficiencies.

Performance and Fund Summaries

Performance results for the SIF investment options for periods ending June 30, 2024, are provided in Figure 46.

Average annual performance includes terminated manager performance. Performance reflects the deduction of investment management fees. Performance greater than one year is annualized. Past performance does not guarantee future results.

Figure 46. Supplemental Investment Fund (SIF) Investment Options Performance (%) For Periods Ending June 30, 2024

Fund/Benchmark	Annualized Performance				Option Since
	1 Year	3 Year	5 Year	10 Year	
U.S. Equity Actively Managed Fund	25.0	7.4	14.5	12.5	1986
<i>Russell 3000</i>	23.1	8.1	14.1	12.1	
U.S. Equity Index Fund	23.2	8.1	14.3	12.3	1986
<i>Russell 3000</i>	23.1	8.1	14.1	12.1	
Broad International Equity Fund	12.8	2.0	6.8	4.7	1994
<i>MSCI ACWI ex U.S. Index (net)</i>	11.6	0.5	5.5	3.8	
Bond Fund	3.6	-2.8	0.5	1.9	1986
<i>Bloomberg U.S. Aggregate</i>	2.6	-3.0	-0.2	1.3	
Money Market Fund	5.7	3.4	2.4	1.7	1986
<i>ICE BofA 3 Month Treasury Bill</i>	5.4	3.0	2.2	1.5	
Balanced Fund	15.2	4.1	9.1	8.3	1980
<i>Balanced Fund Composite Benchmark¹</i>	14.8	4.1	8.7	8.0	
Volunteer Firefighter Account	11.7	2.0	6.5	6.1	2010
<i>Volunteer Firefighter Composite Benchmark¹</i>	11.1	1.8	6.0	5.7	
Stable Value Fund ²	3.1	2.5	2.5	2.3	1994
<i>3 Year Constant Maturity Treasury + 0.45%</i>	5.0	3.7	2.7	2.3	

¹Composite Benchmark reflects the aggregate performance of the underlying fund benchmark returns according to their target weights.

²Stable Value is not available to all Plans.

Other Retirement Funds

Investment Program Overview

Fund summaries are provided on pages 118-124, and the Stable Value Fund Investment Manager summary is listed on page 133.

SIF Unit Values

Unit values for SIF investment pools are determined by each Fund's net asset value (NAV), calculated daily after the market closes.

The share values in the Money Market investment option remain constant and are expected to be issued and redeemed at a book value of \$1 per share. The investment manager may at any time cause a portfolio to issue and redeem shares using market value rather than book value. Interest is accrued daily and reinvested back into the portfolio.

For the Stable Value investment option, shares are priced based on the blended crediting rates of the contracts and yields from the liquid investments.

Statewide Volunteer Firefighter Plan

Description

[Minnesota Statutes, Chapter 353G](#) authorized a statewide, voluntary plan for local fire relief associations. The Statewide Volunteer Firefighter (SVF) Plan, established on January 1, 2010, is administered by the Public Employees Retirement Association (PERA). Volunteer relief association participation in the SVF Plan becomes effective on December 31 of the year the fire relief plan elects to join.

2024 Activity

In January 2024, 21 volunteer fire relief plans with collective

assets of \$15.4 million joined the SVF Plan.

At the end of fiscal year 2024, the SVF Plan comprised 234 volunteer fire relief plans with assets of approximately \$183.9 million.

Investment Options

Participating volunteer firefighter associations in the SVF Plan are invested in the Volunteer Firefighter Account.

Volunteer Fire Relief Associations

Description

Volunteer fire relief associations are governed under [Minnesota Statutes, Chapter 424A](#). Eligible fire relief associations that choose not to participate in the SVF Plan (and therefore are not eligible to invest in the Volunteer Firefighter Account) can choose to invest in other SIF investment options managed by the SBI as well as non-SBI investment options. These fire relief associations are responsible for their investment decisions and plan administration.

As of June 30, 2024, 163 non-SVF Plan volunteer fire relief associations invested approximately \$397.9 million of their assets with the SBI.

Investment Options

There are six investment options available to volunteer fire relief associations that do not participate in the SVF Plan:

- U.S. Equity Actively Managed Fund
- U.S. Equity Index Fund
- Broad International Equity Fund
- Bond Fund

- Money Market Fund
- Balanced Fund

Individual Public Retirement Plans

Description

Under [Minnesota Statutes, Section 11A.17](#), any public retirement plan or fund is authorized to invest its assets in the eligible investment options in the SIF platform.

Investment Options

There are six investment options available to eligible public retirement plans:

- U.S. Equity Actively Managed Fund
- U.S. Equity Index Fund
- Broad International Equity Fund
- Bond Fund
- Money Market Fund
- Balanced Fund

PERA Defined Contribution (DC) Plan

Description

The PERA DC Plan is governed by [Minnesota Statutes, Chapter 353D](#), and satisfies the requirements of section 457(b) of the Internal Revenue Code. The PERA DC plan is exclusively for physicians, elected local governmental officials, city managers, and governmental volunteer ambulance service personnel.

PERA is the administrator of the Plan, and the SBI is responsible for the management and selection of investment options along with the reporting of annual returns and market values.

Other Retirement Funds

Investment Program Overview

As of June 30, 2024, participants invested approximately \$102.0 million in the PERA DC Plan.

Investment Options

There are seven investment options available to participants in the PERA DC Plan:

- U.S. Equity Actively Managed Fund
 - U.S. Equity Index Fund
 - Broad International Equity Fund
 - Bond Fund
 - Money Market Fund
 - Balanced Fund
 - Stable Value Fund
- Vanguard Total U.S. Stock Market Index Fund
 - Vanguard Midcap Index Fund
 - Vanguard Dividend Growth Fund
 - T. Rowe Price Small Cap Fund
 - Vanguard Total International Stock Index Fund
 - Vanguard Bond Index Fund
 - Dodge & Cox Income Fund
 - Vanguard Balanced Fund
 - Minnesota Target Retirement Funds
 - Money Market Fund
 - Stable Value Fund

Unless participants direct otherwise, the default investment option is the Balanced Fund.

Unclassified Retirement Plan

Description

The Unclassified Retirement Plan was established under [Minnesota Statutes, Chapter 352D](#), and satisfies the requirements of section 401(a) of the Internal Revenue Code. The Unclassified Retirement Plan is available to certain Minnesota employees in unclassified positions.

Minnesota State Retirement System (MSRS) administers the plan and has contracted with Empower as the recordkeeper.

As of June 30, 2024, over \$402.1 million was invested in the Unclassified Retirement Plan.

Investment Options

There are 11 investment options available to participants in the Unclassified Retirement Plan:

Unless participants direct otherwise, the default investment option is the Minnesota Target Retirement Funds.

Descriptions of the investment options available to the Unclassified Retirement Plan are available on pages 129-131.

Performance

Performance results for these investment options for periods ending June 30, 2024, are provided in Figures 55 and 56 on pages 130 and 131, respectively.

Average annual performance includes terminated manager performance. Performance reflects the deduction of investment management fees. Performance greater than one year is annualized. Past performance does not guarantee future results.

Other Retirement Funds

Supplemental Investment Fund: U.S. Equity Actively Managed Fund

U.S. Equity Actively Managed Fund

Investment Objective

The investment objective of the U.S. Equity Actively Managed Fund is to generate returns exceeding the broad U.S. equity market as measured by the Russell 3000 Index. To achieve this objective, the Fund is invested primarily in domestic equities.

At the end of fiscal year 2024, the Fund's market value was approximately \$100.8 million.

Investment Management

The U.S. Equity Actively Managed Fund invests in the same pool of active managers included in the Combined Funds Domestic Equity Program. The underlying managers invest in strategies benchmarked to various Russell styles, including large-cap growth and value, small-cap growth and value, and all-cap growth. The Fund also invests in semi-passive managers benchmarked to a large-cap core style. These are the same categories represented in the actively managed sub-asset groups of the Domestic Equity Program.

As a fully actively managed investment strategy, the Fund's performance can be expected to exhibit more variability than a passively managed approach. The Fund may hold a small amount of cash representing new contributions received before investment in the market and cash that may be held by individual managers in the Fund.

Investment Performance

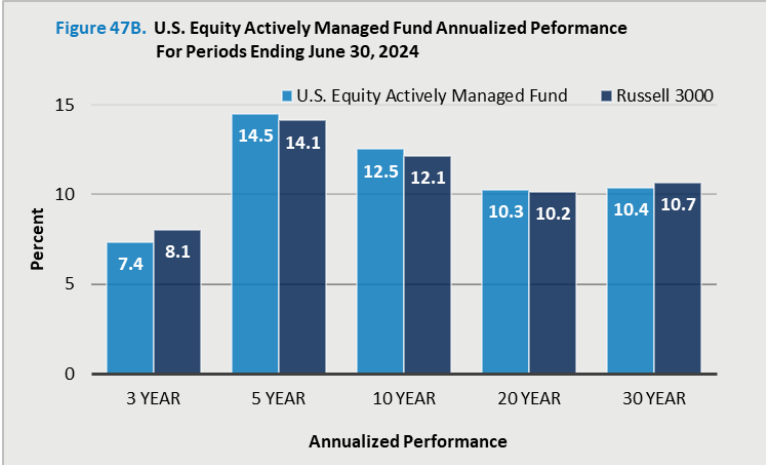
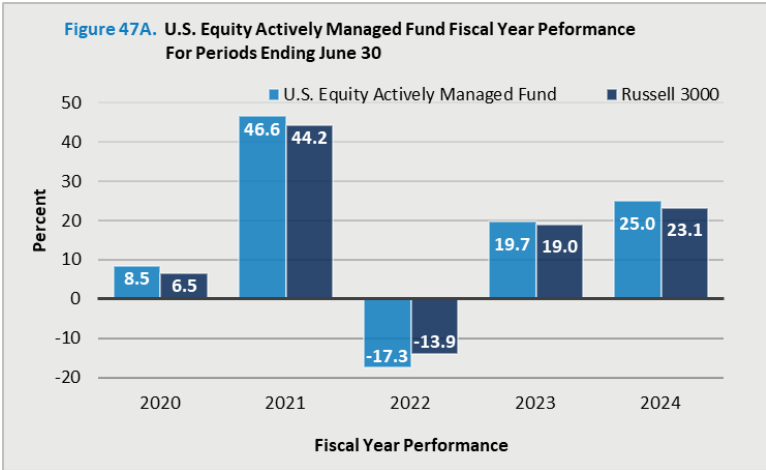
The SBI evaluates the performance of the U.S. Equity Actively Managed Fund on two levels:

- **Total Fund:** The U.S. Equity Actively Managed Fund is expected to exceed the returns of the Russell 3000 Index.
- **Individual Manager:** Performance objectives for the individual managers are described on pages 43-49 of this report.

points. Over the trailing 10-year period, the Fund outperformed its benchmark by 0.4 percentage points per annum.

Historical performance results for this Fund are shown in Figures 47A and 47B.

The U.S. Equity Actively Managed Fund returned +25.0% in fiscal year 2024, outperforming the Russell 3000 Index return by 1.9 percentage



Other Retirement Funds

Supplemental Investment Fund: U.S. Equity Index Fund

U.S. Equity Index Fund

Investment Objective

The investment objective of the U.S. Equity Index Fund is to generate returns that track the performance of the broad U.S. equity market, as represented by the Russell 3000 Index. The SBI invests in a fully passively managed strategy to accomplish this objective.

At the end of fiscal year 2024, the Fund's market value was approximately \$403.8 million.

Investment Management

The U.S. Equity Index Fund invests in a passively managed Russell 3000 strategy that is also invested in by the Combined Funds. The Fund is managed by BlackRock Institutional Trust Company.

The U.S. Equity Index Fund is a standalone investment option and is also used as the equity allocation within the Balanced Fund and Volunteer Firefighter Account.

Investment Performance

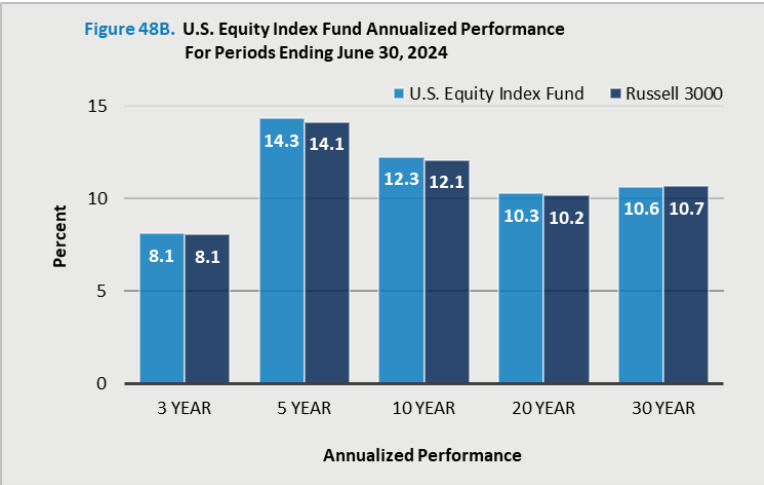
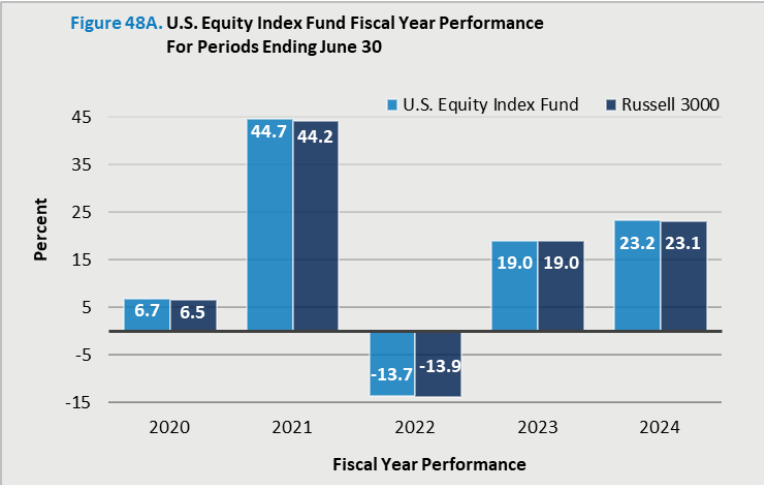
The U.S. Equity Index Fund performance objective is to track the performance of the Russell 3000. The SBI expects that the Fund's returns may deviate slightly from those of the Russell 3000 due to management fees, trading costs, and timing of cash flows.

Performance objectives for the Russell 3000 Index manager are described on page 48 of this report.

The U.S. Equity Index Fund returned +23.2% in fiscal year 2024, slightly outperforming the Russell 3000 Index by 0.1 percentage points. The Fund

closely tracked the benchmark over longer time periods.

Historical performance results for this Fund are shown in Figures 48A and 48B.



Other Retirement Funds

Supplemental Investment Fund: Broad International Equity Fund

Broad International Equity Fund

Investment Objective

The Broad International Equity Fund invests in the equity of companies outside the U.S., with a goal of outperforming the MSCI ACWI ex U.S. Index, an index consisting of both developed international and emerging markets stocks.

The Fund typically invests in the stocks of the largest developed international markets, including Japan, the United Kingdom, France, Switzerland, and Canada. A portion of the Fund is invested in other well-established markets in Europe and the Pacific region. In addition, the Fund invests in emerging markets worldwide, including those in Asia, Latin America, Eastern Europe, the Middle East, and Africa.

At the end of fiscal year 2024, the Fund's market value was approximately \$150.4 million.

Investment Management

The Broad International Equity Fund invests in the same pool of managers included in the Combined Funds International Equity Program. The International Equity Program retains active and passive managers. Active managers use a variety of investment styles and approaches as they seek to outperform the market. The Program's passive manager seeks to approximate the returns of the international markets in developed and emerging markets at a low cost. The Program also employs a currency overlay program as an active currency risk management strategy.

Fiscal Year 2024 Changes

During fiscal year 2024, two investment managers were removed from the international equity segment. The assets invested by these managers were reallocated among other existing managers in the international equity segment.

Investment Performance

The SBI evaluates the performance of the Broad International Equity Fund on two levels:

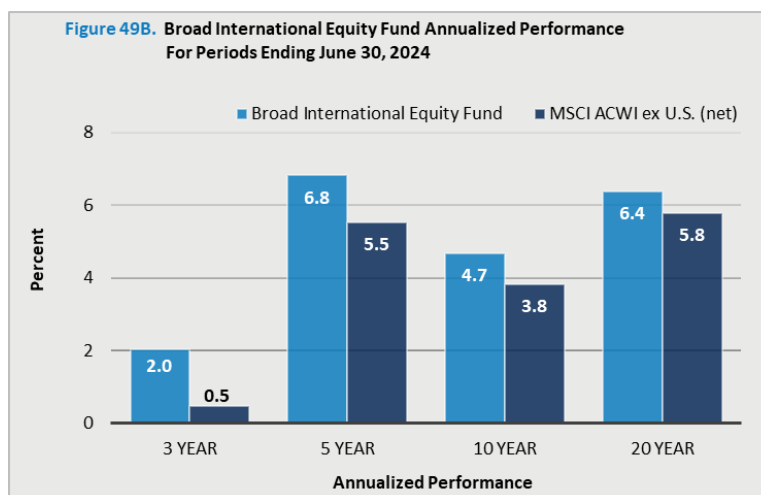
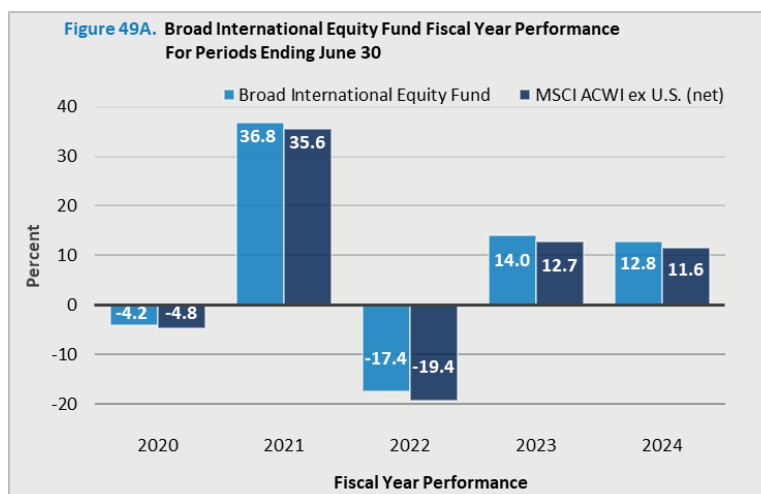
- **Total Fund:** The Broad International Equity Fund is expected to exceed the return of MSCI ACWI ex U.S. Index (net).

Individual Manager:

Performance objectives for the individual managers are described on pages 50-56 of this report.

The Broad International Equity Fund returned +12.8% in fiscal year 2024, outperforming the MSCI ACWI ex U.S. Index (net) by 1.2 percentage points. Over the trailing 10-year period, the Fund exceeded its benchmark by 0.9 percentage points per annum.

Historical performance results for this Fund are shown in Figures 49A and 49B.



Other Retirement Funds

Supplemental Investment Fund: Bond Fund

Bond Fund

Investment Objective

The objective of the Bond Fund is to provide current income and long-term growth potential while preserving invested capital.

The Fund earns investment returns through interest income and capital appreciation. Because bond prices move inversely with interest rates, the value of the Fund may fluctuate with changes in prevailing interest rates. Historically, the Fund has provided a lower risk profile than investment options that include common stocks.

At the end of fiscal year 2024, the Fund's market value was approximately \$107.2 million.

Investment Management

The Bond Fund invests in the same pool of managers included in the Combined Funds core/core plus bonds segment. This segment retains active managers with either a core or a core plus investment strategy.

Managers in the core bond strategy invest in high-quality fixed income securities across all investment-grade sectors of the market. Managers in the core plus bond strategy also primarily invest in investment grade fixed income securities. In addition, they are also allowed expanded flexibility to invest in high yield corporate bonds, international securities, and bonds issued by emerging market sovereign and corporate issuers.

The Bond Fund is a standalone investment option and is also used as the fixed income allocation for the Balanced Fund and the Volunteer Firefighter Account.

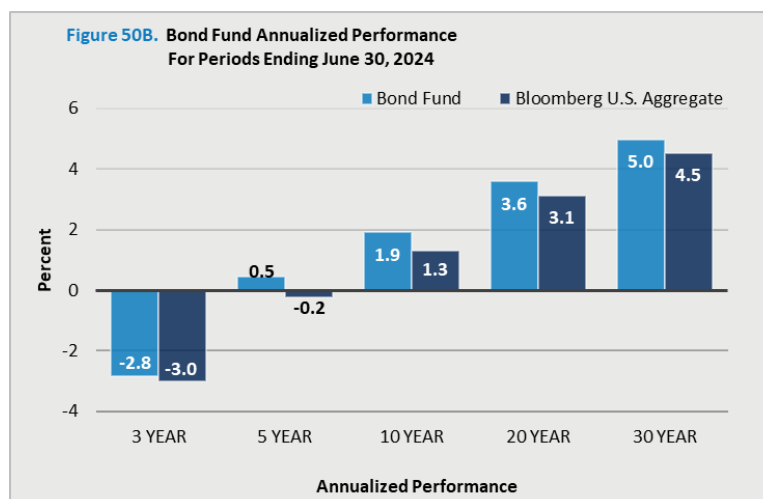
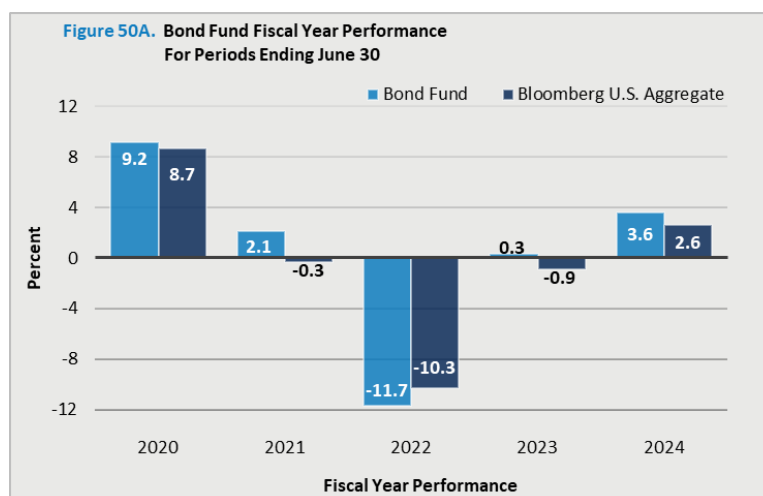
Investment Performance

The SBI evaluates the performance of the Bond Fund on two levels:

- **Total Fund:** The Fund is expected to exceed the returns of the Bloomberg U.S. Aggregate Bond Index.
- **Individual Manager:** Performance objectives for the individual managers are described on pages 67-68 of this report.

The Bond Fund returned +3.6% in fiscal year 2024, outperforming its benchmark by 1.0 percentage points. Over the trailing 10-year period, the Fund exceeded its benchmark by 0.6 percentage points per annum.

Historical performance results for this Fund are shown in Figures 50A and 50B.



Other Retirement Funds

Supplemental Investment Fund: Money Market Fund

Money Market Fund

Investment Objective

The Money Market Fund seeks to provide safety of principal, a high level of liquidity, and a competitive yield. Although the Fund seeks to maintain a stable or constant net asset value, there can be no assurance that it will do so.

The Fund is not a “money market fund” registered with the U.S. Securities Exchange Commission (SEC) and is not subject to the various rules and limitations that apply to such funds.

At the end of fiscal year 2024, the Fund’s market value was approximately \$825.6 million.

Investment Management

The Fund is managed by State Street Global Advisors, the same cash manager utilized for the Combined Funds.

Investment Strategy

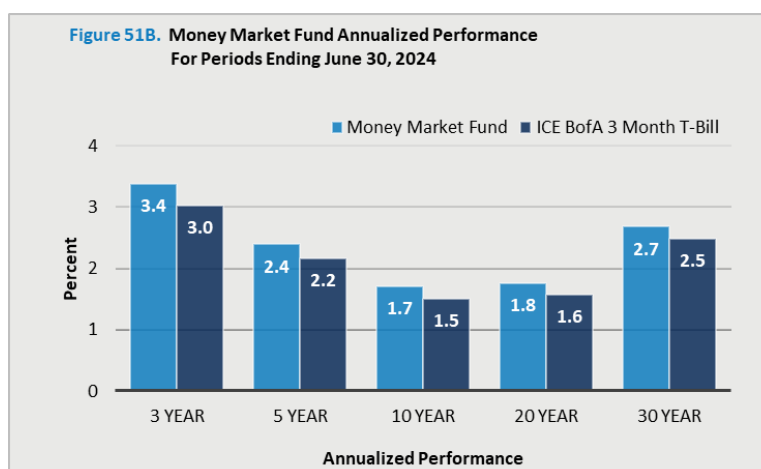
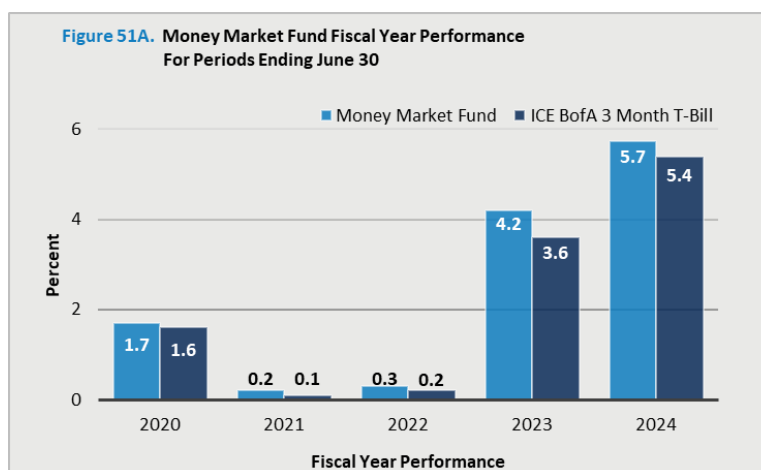
The Fund invests in high-quality, liquid, short-term investments. Allowable investments include U.S. Treasury and Agency issues, repurchase agreements, commercial paper, and certificates of deposit. The Fund’s dollar-weighted average maturity will not normally exceed 60 days. All securities must be denominated in U.S. dollars.

Investment Performance

The Fund seeks to produce returns competitive with those available from other capital preservation strategies and is benchmarked to the ICE BofA 3-Month T-Bill Index.

The Money Market Fund returned +5.7% in fiscal year 2024, outperforming its benchmark by 0.3 percentage points. Over the trailing 10-year period, the Fund outperformed its target by 0.2 percentage points per annum.

Historical performance results for this Fund are shown in Figures 51A and 51B.



Other Retirement Funds

Supplemental Investment Fund: Balanced Fund

Balanced Fund

Investment Objective

The investment objective of the Balanced Fund is to earn a return from capital appreciation (increases in market value) and current yield (dividends from stocks and interest on bonds). The Balanced Fund pursues these objectives while attempting to protect against adverse financial environments and limit short-term portfolio return volatility.

The SBI invests the Balanced Fund in a portfolio of domestic equities, fixed income securities, and cash. The Balanced Fund's long-term strategic asset allocation is:

Domestic Equity	60%
Fixed Income	35%
Cash Equivalent	5%
Total	100%

The Fund's asset mix is intended to provide a hedge against deflation and protection against equity market volatility through diversification. The SBI follows a disciplined approach to rebalancing to maintain the target asset allocation and risk exposure over time.

At the end of fiscal year 2024, the Fund's market value was approximately \$120.9 million.

Investment Management

The equity allocation of the Balanced Fund is passively managed by BlackRock Institutional Trust in the U.S. Equity Index Fund. This Fund is managed to track the return of the Russell 3000 Index. The fixed income allocation is invested in the Bond Fund, which includes both core and core plus bond managers. The cash allocation is invested in the

Money Market Fund, which is actively managed by State Street Global Advisors.

Investment Performance

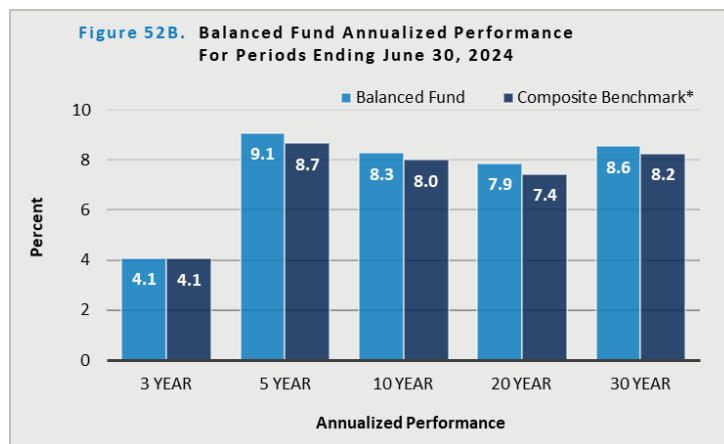
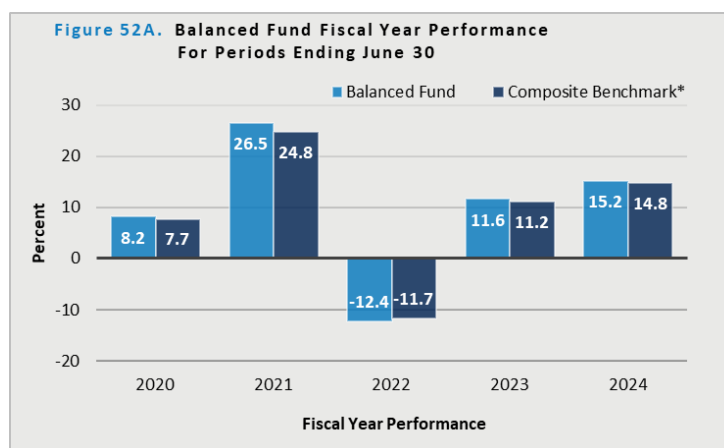
As with the other SBI investment options that use a multi-manager investment structure, the SBI evaluates the performance of the Balanced Fund on two levels:

- **Total Fund:** The Balanced Fund is expected to exceed the returns of a composite of market indices weighted in the same proportion as its long-term asset allocation.
- **Individual Manager:** The passive stock manager is expected to track the performance of the Russell

3000 Index closely. The active managers for the Bond Fund are expected to exceed the performance of the Bloomberg U.S. Aggregate Bond Index. The cash manager for the Fund is expected to exceed the performance of ICE BofA 3-Month U.S. T-Bill Index.

The Balanced Fund returned +15.2% in fiscal year 2024, outperforming its benchmark by 0.4 percentage points. Over the trailing 10-year period, the Balanced Fund exceeded its benchmark by 0.3 percentage points per annum.

Historical performance results for this Fund are shown in Figures 52A and 52B.



*The Composite Benchmark represents the return of the respective sub-asset group benchmarks weighted by its target allocation.

Other Retirement Funds

Supplemental Investment Fund: Volunteer Firefighter Account

Volunteer Firefighter Account

Investment Objective

The investment objective of the Volunteer Firefighter Account is to earn a return from both capital appreciation (increases in market value) and current yield (dividends from stocks and interest on bonds). The policy allocation targets also consider the objectives of protecting against adverse economic environments and controlling short-term portfolio return volatility.

The SBI invests the Account using the following allocation targets:

Domestic Equity	35%
International Equity	15%
Fixed Income	45%
Cash Equivalent	5%
Total	100%

The Account's asset mix is intended to provide a hedge against deflation and protection against equity market volatility through diversification.

The SBI follows a disciplined approach to rebalancing to maintain the target asset allocation and risk exposure over time.

At the end of fiscal year 2024, the market value of the Volunteer Firefighter Account was approximately \$183.9 million.

Investment Management

The Account's investment management structure combines active and passive management. The domestic equity allocation is invested in the U.S. Equity Index Fund, a passively managed portfolio that tracks the returns of the Russell 3000

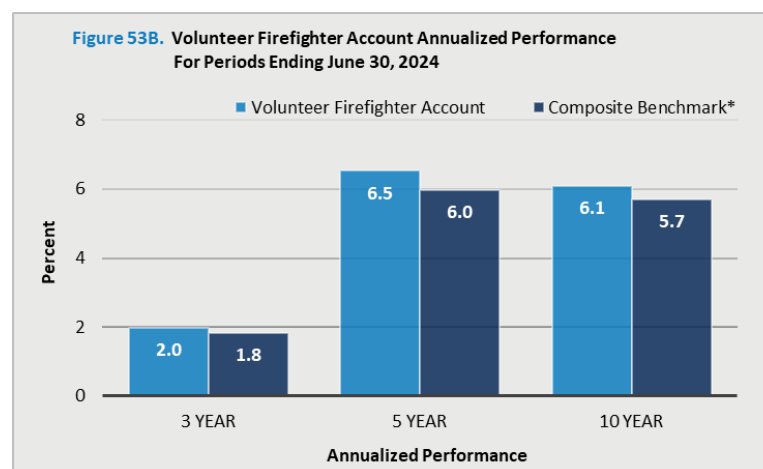
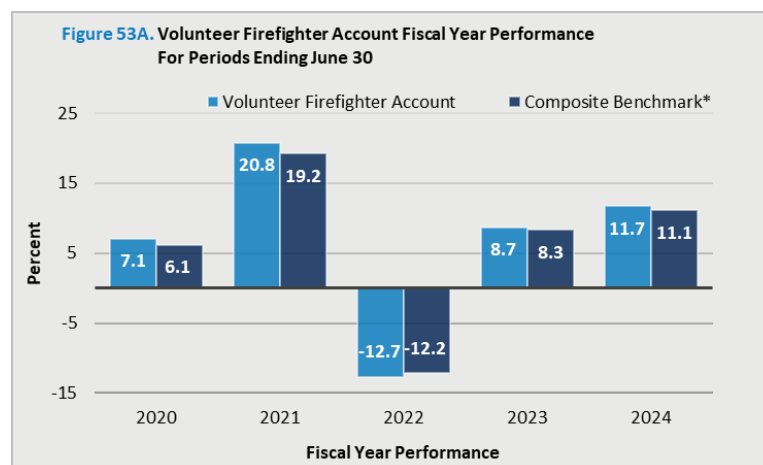
Index. The international equity allocation invests in the Broad International Equity Fund, which includes a diversified set of managers that invest across a broad range of developed and emerging markets. The bond allocation is invested in the Bond Fund, which includes both core and core plus bond managers. The cash allocation is invested in the Money Market Fund, which is actively managed by State Street Global Advisors.

The Account returned +11.7% in fiscal year 2024, outperforming its composite benchmark by 0.6 percentage points. Over the trailing 10-year period, the Account exceeded its benchmark by 0.4 percentage points per annum.

Historical performance results for the Volunteer Firefighter Account are shown in Figures 53A and 53B.

Investment Performance

The SBI evaluates the performance of the Volunteer Firefighter Account on two levels: by total account and by individual manager.



*The Composite Benchmark represents the respective sub-asset group benchmark returns weighted by its target allocation.

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Tax-Advantaged Savings Plans Investment Program Overview

Overview

The SBI is responsible for providing investment options to various tax-advantaged savings plans. As of June 30, 2024, these plans represent approximately \$12.4 billion of assets. Figure 54 lists the plans and assets that comprise this group.

The SBI aims to help participants meet their savings and investment goals by offering a range of investment options across asset classes managed by institutional investment managers that charge competitive fees due to SBI's scale.

The investment options offered within each plan will vary based on several factors, including statutory requirements, operational limitations, and other rules and regulations established for each participating plan.

Health Care Savings Plan

Description

The Health Care Savings Plan (HCSP) was established under [Minnesota Statutes, Section 352.98](#) and is organized as a section 115 Governmental Trust exempt from federal income tax through Private Letter Ruling.

The HCSP is available to all public employees in the state of Minnesota. As specified in [Minnesota Statutes, Section 356.645](#), the SBI is responsible for determining the investment options for this plan. Minnesota State Retirement System (MSRS) administers the plan and has contracted with Empower as its recordkeeper.

Plan	Market Value (in Thousands)
Health Care Savings Plan	\$2,075,453.0
Hennepin County Supplemental Retirement Plan	\$179,066.5
Minnesota Deferred Compensation Plan	\$10,138,821.9
Tax-Advantaged Savings Plans	\$12,393,341.4

As of June 30, 2024, approximately \$2.1 billion was invested in the Health Care Savings Plan.

Investment Options

Participants in this Plan have ten investment options to select from:

- Vanguard Total U.S. Stock Market Index Fund
- Vanguard Midcap Index Fund
- Vanguard Dividend Growth Fund
- T. Rowe Price Small Cap Fund
- Vanguard Total International Stock Index Fund
- Vanguard Bond Index Fund
- Dodge & Cox Income Fund
- Vanguard Balanced Fund
- Stable Value Fund
- Money Market Fund

Unless participants direct otherwise, the default investment option is the Money Market Fund.

Hennepin County Supplemental Retirement Plan

Description

The Hennepin County Supplemental Retirement Plan is governed under [Minnesota Statutes, Section 383B.48](#), and is

a voluntary, non-qualified deferred compensation plan.

This is an optional plan for qualified employees of Hennepin County, Minnesota, who were employed before April 14, 1982. MSRS administers the plan and has contracted with Empower as its recordkeeper.

As of June 30, 2024, approximately \$179.1 million was invested in the Hennepin County Supplemental Retirement Plan.

Investment Options

Participants in this Plan have nine investment options to select from:

- Vanguard Total U.S. Stock Market Index Fund
- Vanguard Midcap Index Fund
- Vanguard Dividend Growth Fund
- T. Rowe Price Small Cap Fund
- Vanguard Total International Stock Index Fund
- Vanguard Bond Index Fund
- Dodge & Cox Income Fund
- Vanguard Balanced Fund
- Money Market Fund

The Hennepin County Supplemental Retirement Plan is a closed plan.

Tax-Advantaged Savings Plans

Investment Program Overview

Minnesota Deferred Compensation Plan

Description

The Minnesota Deferred Compensation Plan (MNDCP) was established under [Minnesota Statutes, Section 352.965](#) and is classified under section 457(b) of the Internal Revenue Code. The Plan is optional for all public employees in the state of Minnesota and political subdivision employees. MSRS administers the plan and has contracted with Empower as its recordkeeper.

As of June 30, 2024, participants invested approximately \$10.1 billion in the Minnesota Deferred Compensation Plan.

Investment Options

Participants in this Plan have 13 investment options and a self-directed brokerage account to select from:

- Minnesota Target Retirement Funds
 - Vanguard Balanced Fund
 - Stable Value Fund
 - Money Market Fund
 - Self-Directed Brokerage Account (allows participants to invest in most publicly traded mutual funds)
- Unless participants direct otherwise, the default option is the Minnesota Target Retirement Funds.
- Vanguard Total U.S. Stock Market Index Fund
 - Vanguard Institutional Index Fund (S&P)
 - Vanguard Midcap Index Fund
 - Vanguard Dividend Growth Fund
 - T. Rowe Price Small Cap Fund
 - Vanguard Total International Stock Index Fund
 - Fidelity Diversified International Equity Strategy
 - Vanguard Bond Index Fund
 - Dodge & Cox Income Fund

Tax-Advantaged Savings Plans

Investment Options

Investment Options

Investment options for the SBI Tax-Advantaged Savings Plans are selected to accommodate varying risk appetites and investment goals. Equity options present the potential for higher returns with relatively higher risk, while fixed income options offer a steady income with relatively lower risk.

Additionally, stable value and money market options prioritize principal protection and liquidity. Most investment options encompass both active and passive management strategies. Actively managed funds are available for participants aiming for potential above-market returns, acknowledging the associated risk of underperformance against market benchmarks. Passively managed options cater to participants seeking consistent market exposure at a reduced cost compared to active management.

A description of each investment option is included in the **Investment Manager Summaries** section on pages 132-136.

Tax-Advantaged Savings Plans Investment Options Performance

Performance results for June 30, 2024, are provided in Figures 55 and 56 on pages 130 and 131.

Performance reflects the deduction of investment management fees. Performance greater than one year is annualized. Past performance does not guarantee future results.

Actively Managed Investment Options

Actively managed investment options are available in the following asset classes:

- **Large-Cap Equity:** A concentrated portfolio of high-quality stocks offering exposure to dividend-focused companies across all industries. The fund performance is measured against the S&P U.S. Dividend Growers Index. The fund currently offered is the Vanguard Dividend Growth Fund.
- **Small-Cap Equity:** Invests primarily in companies with smaller market capitalizations. The fund is expected to outperform the Russell 2000 Index. The fund currently offered is the T. Rowe Price Small Cap Fund.
- **International Equity:** Invests primarily in stocks of companies in developed countries outside the U.S. The fund is expected to outperform the Morgan Stanley Capital International (MSCI) Index of Europe, Australasia, and the Far East (EAFE). The fund currently offered is the Fidelity Diversified International Equity Commingled Investment Trust (CIT).
- **Fixed Income:** Invests primarily in investment-grade securities in the U.S. bond market. The fund is expected to outperform the Bloomberg U.S. Aggregate Bond Index. The fund currently offered is the Dodge & Cox Income Fund.

- **Stable Value:** Is managed to preserve principal and produce steady positive income. The portfolio is benchmarked to the 3-Year Constant Maturity Treasury Yield +0.45% and is managed by Galliard Capital Management in a separately managed account.
- **Money Market:** Seeks to provide safety of principal, daily liquidity, and competitive yield by investing in short-term instruments. The fund is benchmarked to the ICE BofA 3-Month T-Bill and is currently managed by State Street Global Advisors.

Passively Managed Investment Options

Passively managed investment options are available in the following asset classes:

- **All-Cap Equity:** A passive domestic equity portfolio that tracks the CRSP U.S. Stock Market Index. The fund currently offered is the Vanguard Total U.S. Stock Market Index Fund.
- **Large-Cap Equity:** A passive domestic equity portfolio that tracks the S&P 500 Index. The fund currently offered is the Vanguard Institutional Index Plus Fund.
- **Mid-Cap Equity:** Invests in companies with medium market capitalizations that track the CRSP U.S. Mid-Cap Index. The fund currently offered is the Vanguard Midcap Index Institutional Fund.

Tax-Advantaged Savings Plans Investment Options

— **International Equity:** Invests in international equities and is expected to track the FTSE Global All Cap ex U.S. Index, an index designed to measure equity market performance in non-U.S. developed and emerging markets. The fund currently offered is the Vanguard Total International Stock Index Fund.

— **Fixed Income:** Invests in a broad range of investment-grade U.S. fixed income securities. The fund is expected to track the performance of the Bloomberg U.S. Aggregate Bond Index. The fund currently offered is the Vanguard Total Bond Market Index Fund.

— **Balanced Option:** Comprised of a mix of stocks and bonds. The fund is expected to track a weighted benchmark of 60% CRSP U.S. Total Market Index and 40% Bloomberg U.S. Aggregate Bond Index. The fund currently offered is the Vanguard Balanced Index Fund.

— **Self-Directed Brokerage Account:** The self-directed brokerage account is offered through Charles Schwab. This investment option is only available to Minnesota Deferred Compensation Plan participants.

Minnesota Target Retirement Funds

The Minnesota Target Retirement Funds investment option offers a range of funds with diversified allocations that change over time to reduce risk and become more conservative as the target retirement date approaches. The Minnesota Target Retirement Funds, managed by State Street Global Advisors, are available to participants in the Minnesota

Deferred Compensation Plan and the Unclassified Retirement Plan.

Glidepath Construction

The target retirement funds' glidepaths gradually shift the asset allocation to specific targets at different stages in a participant's life cycle. The funds feature underlying investment options that provide participants with opportunities for growth, diversification,

Figure 55. Investment Options Performance (%) For Periods Ending June 30, 2024

Investment Option/Benchmark	Annualized Performance ¹				Market Value ² (In Thousands)	Option Since
	1 Year	3 Year	5 Year	10 Year		
Active Management						
Vanguard Dividend Growth Fund	8.9	6.4	10.2	NA	\$1,007,240.9	2016
<i>Dividend Growth Spliced Index</i> ³	14.6	7.8	11.8	NA		
T. Rowe Price Small Cap Fund	8.8	-2.5	7.4	9.0	\$873,122.1	2000
<i>Russell 2000</i>	10.1	-2.6	6.9	7.0		
Fidelity Diversified International Equity CIT	12.4	1.2	7.9	5.7	\$365,799.6	1999
<i>MSCI EAFE Net Dividend</i>	11.5	2.9	6.5	4.3		
Dodge & Cox Income Fund	4.5	-1.4	1.4	2.4	\$296,457.7	1999
<i>Bloomberg U.S. Aggregate</i>	2.6	-3.0	-0.2	1.3		
Stable Value Fund	3.1	2.5	2.5	2.3	\$1,536,856.1	1994
<i>3 Year Constant Maturity Treasury + 0.45%</i>	5.0	3.7	2.7	2.3		
Money Market Fund	5.7	3.4	2.4	1.7	\$825,550.5	1986
<i>ICE BofA 3 Month Treasury Bill Index</i>	5.4	3.0	2.2	1.5		
Passive Management						
Vanguard Total U.S. Stock Market Index Fund	23.2	7.9	14.1	NA	\$982,929.6	2019
<i>CRSP U.S. Total Stock Market</i>	23.2	7.9	14.1	NA		
Vanguard Institutional Index Plus Fund	24.5	10.0	15.0	12.8	\$2,190,879.4	1999
<i>S&P 500 Index</i>	24.6	10.0	15.0	12.9		
Vanguard Midcap Index Institutional Fund	11.8	2.2	9.4	9.1	\$786,086.1	2004
<i>CRSP U.S. Mid Cap Benchmark</i>	11.8	2.2	9.4	9.1		
Vanguard Total International Stock Index Fund	11.0	0.4	5.8	4.1	\$408,195.3	2011
<i>FTSE Global All Cap ex U.S.</i>	11.5	0.3	5.7	3.9		
Vanguard Total Bond Market Index Fund	2.8	-3.0	-0.2	1.3	\$326,952.6	2003
<i>Bloomberg U.S. Aggregate</i>	2.6	-3.0	-0.2	1.3		
Vanguard Balanced Index Fund	14.9	3.6	8.5	8.0	\$1,498,334.2	2003
<i>Blended Benchmark</i> ⁴	14.7	3.7	8.5	8.0		
Minnesota Target Retirement Strategy	<i>See Figure 56 for specific glide path performance</i>				\$1,624,444.4	2011
<i>Blended Benchmarks</i> ⁴						
Self-Directed Brokerage Window					\$98,097.2	
Total Assets⁵					\$12,820,945.9	

¹Reflects investment option performance since SBI participation in fund.

²Represents aggregate market value for SBI-related accounts.

³S&P U.S. Dividend Growers Index since 9/20/2021; NASDAQ U.S. Dividend Achievers Select Index prior to 9/19/2021.

⁴Blended Benchmark reflects the aggregate performance of the underlying fund benchmark returns according to their

⁵Includes the Unclassified Plan and the PERA DC Plan assets invested in the Stable Value Fund and Money Market Fund.

Tax-Advantaged Savings Plans Investment Options

capital preservation, and, ultimately, real income replacement at retirement.

Underlying Passive Funds in Glidepath

The underlying funds are passively managed in index funds. At changing levels over time, the target retirement funds will allocate assets across the following strategies:

- **U.S. Large Cap:** Invests in the S&P 500 Index for wealth accumulation.
- **U.S. Small/Mid Cap Equity:** Invests in the Russell Small Cap Completeness Index for diversification and wealth accumulation.

- **Non-U.S. Developed/ Emerging Equity:** Invests in the MSCI ACWI ex U.S. IMI Index for wealth accumulation and diversification.

- **Global Real Estate:** Invests in the Global Real Estate Securities Index for income, diversification, and inflation protection.

- **Core Aggregate Bonds:** Invests in the U.S. Aggregate Bond Index for income and to balance volatility risk.

- **Long-Term Governmental Bonds:** Invests in the Long U.S. Government Bond Index for diversification and matches duration to longer-term liabilities for younger participants.

- **Intermediate Inflation-Protected Bonds:** Invests in the 1-10 Year U.S. Treasury Inflation Protected Securities (TIPS) Index for income, inflation protection, volatility risk protection, and to mitigate interest rate risk for older participants.

- **High Yield Bonds:** Invests in the U.S. High Yield Very Liquid Index to provide diversification and mitigate longevity risk.

- **Short-Term Governmental Bonds:** Invests in the U.S. Short-Term Government/ Credit Bond Index for income, volatility risk protection, and interest rate risk mitigation for older participants.

- **Commodities:** Invests in the Bloomberg Roll Select Commodities Index Strategy for diversification and inflation protection.

Performance results and market values for the Minnesota Target Retirement Fund glidepaths for periods ending June 30, 2024, are shown in Figure 56.

**Figure 56. Minnesota Target Retirement Funds Performance (%)
For Periods Ending June 30, 2024**

Fund/Benchmark ¹	Annualized Performance				Market Value ² (in Thousands)	Option Since
	1 Year	3 Year	5 Year	10 Year		
Income Fund	8.3	1.2	4.5	3.9	\$207,662.1	2011
<i>Income Fund Blended Benchmark</i>	8.4	1.2	4.5	3.9		
2025 Fund	8.6	1.1	5.2	4.9	\$210,183.5	2011
<i>2025 Fund Blended Benchmark</i>	8.6	1.1	5.2	4.9		
2030 Fund	10.2	1.3	6.4	5.9	\$246,564.2	2011
<i>2030 Fund Blended Benchmark</i>	10.3	1.3	6.4	5.9		
2035 Fund	11.9	1.7	7.3	6.6	\$219,205.1	2011
<i>2035 Fund Blended Benchmark</i>	11.9	1.7	7.3	6.6		
2040 Fund	12.6	1.9	7.8	6.9	\$182,724.2	2011
<i>2040 Fund Blended Benchmark</i>	12.7	1.8	7.8	6.9		
2045 Fund	13.4	2.1	8.3	7.2	\$183,230.7	2011
<i>2045 Fund Blended Benchmark</i>	13.5	2.1	8.3	7.2		
2050 Fund	14.1	2.3	8.8	7.5	\$160,449.8	2011
<i>2050 Fund Blended Benchmark</i>	14.2	2.3	8.7	7.5		
2055 Fund	14.7	2.5	9.1	7.7	\$110,367.9	2011
<i>2055 Fund Blended Benchmark</i>	14.8	2.5	9.0	7.7		
2060 Fund	14.8	2.6	9.1	7.7	\$83,458.2	2011
<i>2060 Fund Blended Benchmark</i>	14.9	2.5	9.1	7.7		
2065 Fund	14.8	2.6	NA	NA	\$20,598.6	2020
<i>2060 Fund Blended Benchmark</i>	14.9	2.5	NA	NA		
Minnesota Target Retirement Funds					\$1,624,444.4	

¹Blended Benchmark reflects the aggregate performance of the underlying fund benchmark returns according to their target weights.

²Represents aggregate market value for SBI-related accounts.

Tax-Advantaged Savings Plans

Mutual Funds and Target Date Fund: Investment Manager Summaries

Mutual Fund Investment Platform Managers

Actively Managed Funds

Dodge & Cox Income Fund

Asset Class:	Fixed Income	Benchmark:	Bloomberg U.S. Aggregate Bond Index
Added to Platform:	July 1999	Investment Style:	Active Core
Firm Assets (6/30/24):	\$383.8 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$78.8 billion	Investment Process:	Bottom-up
Product Location:	San Francisco, CA	Expected # of Holdings:	150-250

The objective of this Fund is to seek a high and stable rate of current income, consistent with long-term preservation of capital, with capital appreciation being a secondary consideration. This portfolio invests primarily in investment-grade quality corporate and mortgage bonds, government issues, and, to a lesser extent, fixed income securities rated below investment grade. While it invests primarily in the U.S. bond market, the Fund may invest up to 25% of its total assets in U.S. dollar-denominated securities of non-U.S. issuers, including emerging market issuers.

Fidelity Diversified International Commingled Pool

Asset Class:	International Equity	Benchmark:	MSCI EAFE Index
Added to Platform:	July 1999	Investment Style:	Large-Cap, Developed Countries
Firm Assets (6/30/24):	\$5.5 trillion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$7.6 billion	Investment Process:	Bottom-up
Product Location:	Boston, MA	Expected # of Holdings:	100-200

The portfolio's investment objective is to seek capital growth over a market cycle relative to the MSCI EAFE Index, through the active management of primarily non-U.S. common stock using a bottom-up stock selection process. The portfolio's investment philosophy is that selecting companies based on rigorous fundamental analysis, management quality and attractive valuations creates the best framework to outperform the market over the long term. Generally, the portfolio's universe includes non-U.S. common stocks with market capitalization consistent with the MSCI EAFE Index, though the portfolio's investable universe extends beyond the EAFE Index to include emerging market, Canadian, U.S., and other international stocks. The Fund does not employ currency hedging.

T. Rowe Price Institutional Small-Cap Stock Fund

Asset Class:	Small-Cap Equity	Benchmark:	Russell 2000
Added to Platform:	April 2000	Investment Style:	Core
Firm Assets (6/30/24):	\$1.6 trillion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$19.0 billion	Investment Process:	Bottom-up
Product Location:	Baltimore, MD	Expected # of Holdings:	275-325

The Fund seeks to provide long-term capital growth by investing primarily in stocks of small companies. The Fund will normally invest at least 80% of its net assets (including any borrowings for investment purposes) in stocks of small companies. The Fund defines a small company as one whose market capitalization falls within or below the current range of companies in either the Russell 2000 Index or the S&P Small-Cap 600 Index. When choosing stocks, the Fund manager generally looks for one or more of the following characteristics: capable management, attractive business niches, pricing flexibility, sound financial and accounting practices, a potential or demonstrated ability to grow earnings, revenues, and cash flow consistently, and the potential for a catalyst (such as increased investor attention, asset sales, strong business prospects, or a change in management) to cause the stock's price to rise. In September 2016, the T. Rowe Price Institutional Small-Cap Stock Fund replaced the retail mutual fund vehicle.

Tax-Advantaged Savings Plans

Mutual Funds and Target Date Fund: Investment Manager Summaries

Mutual Fund Investment Platform Managers

Actively Managed Funds

Vanguard Dividend Growth Fund

Asset Class:	Domestic Equity	Benchmark:	Dividend Growth Spliced Index
Added to Platform:	October 2016	Investment Style:	Large-Cap, High Dividend Yield
Firm Assets (6/30/24):	\$8.6 trillion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$51.4 billion	Investment Process:	Bottom-up
Product Location:	Boston, MA	Expected # of Holdings:	40-60

The Fund is an actively managed U.S. stock fund that uses the Dividend Growth Spliced Index as its benchmark, which consist of the S&P U.S. Dividend Growers Index since 9/19/21, the NASDAQ U.S. Dividend Achievers Select Index from 9/18/21-2/1/2010 and the Russell 1000 1/31/2010-12/6/2002. The Fund investment objective is to provide, primarily, a growing stream of income over time and, secondarily, long-term capital appreciation and current income. The Fund invests primarily in stocks that tend to offer current dividends. The Fund focuses on high-quality companies that have prospects for long-term total returns as a result of their ability to grow earnings and willingness to increase dividends over time. These stocks typically, but not always, will be undervalued relative to the market and will show potential for increasing dividends. The Fund will be diversified across industry sectors.

Galliard Capital Management Inc.

Asset Class:	Stable Value	Benchmark:	3 Yr Constant Maturity Treasury Index +0.45%
Added to Platform:	November 1994	Investment Style:	Capital Preservation
Firm Assets (6/30/24):	\$83.3 billion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24):	\$64.4 billion	Investment Process:	Bottom-up
Manager Location:	Minneapolis, MN	Expected # of Holdings:	1,200-1,600

Galliard Capital Management manages the Stable Value Fund to provide preservation of principal, maintain adequate liquidity to meet potential withdrawals, produce a level of steady positive income, and provide low volatility of returns. The Fund invests in Synthetic Guaranteed Investment Contracts (GICs), which is a combination of an underlying fixed income portfolio within a book value wrap contract (an investment contract) issued by insurance companies and banks. These wrap contracts ensure that participants can transact at book value (principal plus accrued interest) as well as maintain a relatively stable return profile for the portfolio regardless of daily market changes. The underlying fixed income portfolio provides a source of long-term total return while the stable value contract smooths return over time (amortizes gains/losses). The underlying fixed income portfolio invests in a well-diversified portfolio of U.S. dollar denominated, investment grade fixed income securities. The Fund also invests less than 3% of the assets in short-term securities in order to maintain necessary liquidity.

Tax-Advantaged Savings Plans

Mutual Funds and Target Date Fund: Investment Manager Summaries

Mutual Fund Investment Platform Managers

Actively Managed Funds

State Street Global Advisors

Asset Class:	Cash	Benchmark:	ICE BofA 3-Month T-Bill Index
Added to Platform:	July 1999	Investment Style:	Short-Term Cash
Firm Assets (6/30/24):	\$4.4 trillion	Fundamental/Quant:	Fundamental
Product Assets (6/30/24)	\$66.4 billion	Investment Process:	Active
Manager Location:	Boston, MA	Expected # of Holdings:	250-350

The Money Market Fund seeks to provide safety of principal, daily liquidity, and a competitive yield over the long term. The Fund is not a "money market fund" registered with the Securities and Exchange Commission and is not subject to the various rules and limitations that apply to such funds. There can be no assurance that the Fund will maintain a stable net asset value.

The Fund invests in a diversified portfolio of U.S. dollar-denominated securities issued or guaranteed by the U.S. Government or its agencies or instrumentalities; debt securities of domestic or foreign corporations; mortgage-backed and other asset-backed securities; taxable and tax-exempt municipal bonds; obligations of international agencies or supranational entities; inflation-indexed bonds; structured notes; loan participations; delayed funding loans and revolving credit facilities; and short-term investments, such as repurchase agreements, bank certificates of deposit, fixed time deposits, and bankers' acceptances.

Passively Managed Funds

Vanguard Institutional Index Fund Institutional Plus

Asset Class:	Large-Cap Domestic Equity	Benchmark:	S&P 500 Index
Added to Platform:	July 1999	Investment Style:	Core
Firm Assets (6/30/24):	\$8.6 trillion	Fundamental/Quant:	N.A.
Product Assets (6/30/24):	\$297.4 billion	Investment Process:	Passive
Product Location:	Malvern, PA	Expected # of Holdings:	Approx. 500

The passively managed Fund tracks the S&P 500 index. The Fund employs an indexing investment approach designed to track the performance of the Standard & Poor's 500 Index, which is dominated by the stocks of large U.S. companies. The Fund attempts to replicate the target index by investing all, or substantially all, of its assets in the stocks that make up the index.

Vanguard Mid-Capitalization Index Institutional Fund Plus

Asset Class:	Mid-Cap Domestic Equity	Benchmark:	CRSP U.S. Mid-Cap Index
Added to Platform:	January 2004	Investment Style:	Core
Firm Assets (6/30/24):	\$8.6 trillion	Fundamental/Quant:	N.A.
Product Assets (6/30/24):	\$161.5 billion	Investment Process:	Passive
Product Location:	Malvern, PA	Expected # of Holdings:	300-325

The Fund is passively managed to track the performance of the CRSP U.S. Mid-Cap Index, a broadly diversified index of stocks of medium-size U.S. companies. The Fund attempts to replicate the target index by investing all, or substantially all, of its assets in the stocks that make up the index, holding each stock in approximately the same proportion as its weighting in the index.

Tax-Advantaged Savings Plans

Mutual Funds and Target Date Fund: Investment Manager Summaries

Mutual Fund Investment Platform Managers

Passively Managed Funds

Vanguard Balanced Index Fund Institutional

Asset Class:	Balanced	Benchmark:	60% CRSP U.S. Total Market Index 40% Bloomberg U.S. Aggregate Bond Index
Added to Platform:	December 2003	Investment Style:	Core
Firm Assets (6/30/24):	\$8.6 trillion	Fundamental/Quant:	N.A.
Product Assets (6/30/24):	\$55.5 billion	Investment Process:	Passive
Product Location:	Malvern, PA	Expected # of Holdings:	3,200-3,700 stock holdings 9,000-14,000 bond holdings

The Fund portfolio provides a diversified portfolio of stocks and bonds by investing in a mix of 60 percent stocks and 40 percent bonds. The manager does not change the asset mix. The Fund is passively managed with the equity portfolio to track the returns of the CRSP U.S. Total Market Index, which covers all regularly traded U.S. stocks. The bond portfolio is invested to track the returns of the Bloomberg U.S. Aggregate Float Adjusted Bond Index, which covers virtually all taxable fixed income securities.

Vanguard Total Bond Market Index Fund Institutional Plus

Asset Class:	Fixed Income	Benchmark:	Bloomberg U.S. Aggregate Float Adjusted Bond Index
Added to Platform:	December 2003	Investment Style:	Core
Firm Assets (6/30/24):	\$8.6 trillion	Fundamental/Quant:	N.A.
Product Assets (6/30/24):	\$320.0 billion	Investment Process:	Passive
Product Location:	Malvern, PA	Expected # of Holdings:	10,500-14,000

The Fund is passively managed to track the performance of the Bloomberg U.S. Aggregate Float Adjusted Bond index. The manager uses an index sampling technique to invest in investment-grade corporate, U.S. Treasury, international dollar denominated bonds, mortgage-backed and asset-backed securities of varying maturities in order to create a portfolio of intermediate duration like the Bloomberg U.S. Aggregate Float Adjusted Bond Index, which currently ranges between 5 and 10 years.

Vanguard Total International Stock Index Fund Plus

Asset Class:	International Equity	Benchmark:	FTSE Global All Cap ex US Index
Added to Platform:	July 2011	Investment Style:	Core
Firm Assets (6/30/24):	\$8.6 trillion	Fundamental/Quant:	N.A.
Product Assets (6/30/24):	\$429.0 billion	Investment Process:	Passive
Product Location:	Malvern, PA	Expected # of Holdings:	8,000-8,500

The Fund is passively managed to track the returns of the FTSE Global All Cap ex U.S. Index, a free-float-adjusted market-capitalization-weighted index designed to measure equity market performance in developed markets and emerging markets, excluding the U.S. The Fund invests in small-, mid-, and large-cap stocks in the market index and includes more than 8,300 stocks of companies located in 46 countries. The Fund invests substantially all of its assets in the common stocks included in its target index. Fund assets are allocated based on each region's weighting in the index.

Tax-Advantaged Savings Plans

Mutual Funds and Target Date Fund: Investment Manager Summaries

Mutual Fund Investment Platform Managers

Passively Managed Funds

Vanguard Total Stock Market Index Institutional Plus

Asset Class:	All Cap Domestic Equity	Benchmark:	CRSP U.S. Total Market Index
Added to Platform:	July 2019	Investment Style:	Core
Firm Assets (6/30/24):	\$8.6 trillion	Fundamental/Quant:	N.A.
Product Assets (6/30/24):	\$1.6 trillion	Investment Process:	Passive
Product Location:	Malvern, PA	Expected # of Holdings:	3,600-3,700

The passively managed Fund tracks the performance of its benchmark, the CRSP U.S. Total Market Index, which measures the investment return of the overall stock market. The manager uses an index sampling technique to invest in large-, mid-, small-, and micro-cap U.S. companies diversified across growth and value styles. The key characteristics of the portfolio, in aggregate, will approximate the full index in terms of industry weightings and market capitalization, as well as certain financial measures such as price/earnings and dividend yield.

Target Date Fund Manager

Minnesota Target Retirement Funds

State Street Global Advisors

Asset Class:	Diversified	Benchmark:	Custom
Added to Platform:	July 2011	Investment Style:	Target Date Funds
Firm Assets (6/30/24):	\$4.4 trillion	Fundamental/Quant:	N.A.
Product Assets (6/30/24):	\$168.0 billion	Investment Process:	Passive
Product Location:	Boston, MA	Expected # of Holdings:	N.A.

The MN Target Retirement Funds managed by State Street Global Advisors (SSGA), seek to offer complete, low-cost investment strategies with asset allocations, which become more conservative as employees near retirement. Each Fund seeks to achieve its objective by investing in a set of underlying SSGA collective trust funds representing various asset classes. Over time, the allocation to asset classes and funds change according to a predetermined "glide path." (The glide path represents the shifting of asset classes over time and does not apply to the Income Fund.) Each Fund's asset allocation will become more conservative as it approaches its target retirement date. This reflects the need for reduced investment risks as retirement approaches and the need for lower volatility of a portfolio, which may be a primary source of income after retiring.

State-Sponsored Savings Plans

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State-Sponsored Savings Plans Investment Program Overview

Overview

The SBI is responsible for the investment options offered in two state-sponsored savings plans: the Minnesota Achieving a Better Life Experience (ABLE) Plan and the Minnesota College Savings Plan. A third state-sponsored plan, the Minnesota Secure Choice Retirement Program, will launch in 2026.

Legislative approval is required for the SBI to invest the assets of any plan. Since the SBI does not directly administer plans, it partners with the respective plan-administrating agencies when selecting investment options. The assets of the Minnesota ABLE Plan and the Minnesota College Savings Plan are listed in Figure 57.

Minnesota ABLE Plan

Description

The Minnesota ABLE Plan was established in 2015 under [Minnesota Statutes, Chapter 256Q](#). The Plan is allowed under section 529A of the Internal Revenue Code to encourage and assist individuals to save for qualified disability-related expenses in a tax-advantaged savings plan without jeopardizing eligibility for other benefits.

The SBI is responsible for overseeing the investment options, and the Commissioner of the Department of Human Services (DHS) is responsible for the administration of the Plan. The SBI and DHS have contracted jointly with Ascensus to provide recordkeeping, administrative, and investment management services.

Figure 57. State-Sponsored Savings Plans Assets as of June 30, 2024

Plan	Market Value (in Thousands)
Minnesota Achieving a Better Life Experience (ABLE) Plan	\$47,255.7
Minnesota College Savings Plan	\$2,021,929.4
State-Sponsored Savings Plans	\$2,069,185.1

Information on the Minnesota ABLE Plan can be found at savewithable.com.

Plan Information

On page 140, a summary of the investment options offered under the Minnesota ABLE Plan and performance results as of June 30, 2024, is provided. As of June 30, 2024, approximately \$47.3 million was invested in the Minnesota ABLE Plan.

Minnesota College Savings Plan

Description

The Minnesota Legislature authorized the establishment of the Minnesota College Savings Plan under [Minnesota Statutes, Chapter 136G](#) in 1997 to help families set aside funds for future educational needs. The SBI oversees the investment options, and the Minnesota Office of Higher Education (OHE) is responsible for the overall administration of the Plan. The SBI and OHE have contracted jointly with TIAA-CREF Tuition Financing, Inc. (TFI) to provide administrative, marketing, communication, recordkeeping, and investment management services.

Information on the Minnesota College Savings Plan can be found at mnsaves.org.

Plan Information

On page 141, a summary of the investment options available in

the Minnesota College Savings Plan and performance results as of June 30, 2024, are provided. As of June 30, 2024, approximately \$2.0 billion was invested in the Minnesota College Savings Plan.

Minnesota Secure Choice Retirement Program

Description

In May 2023, [Minnesota Statutes, Chapter 187](#) was signed into law establishing the Minnesota Secure Choice Retirement Program. This public-private partnership is intended to benefit private-sector workers who don't have access to an employer-sponsored retirement plan. Employers with five or more employees who do not sponsor a retirement plan must offer a state-sponsored individual retirement account (IRA) for the employee.

The Secure Choice Board has identified and is in the process of completing several phases of this program before its launch in 2026. An interim Executive Director has been retained and is assisting in the design and development of the program, including choosing a permanent Executive Director. The SBI is responsible for selecting investment funds, and a Secure Choice Board has been established to hire the Executive Director and retain a Program Manager to administer the program.

State-Sponsored Savings Plans

Minnesota ABLE Plan

Minnesota ABLE Plan

The Minnesota ABLE Plan (Achieving a Better Life Experience) is a tax-advantaged savings plan designed to help families set aside funds for eligible disability expenses under Section 529A of the Internal Revenue Code. On June 30, 2024, the market value of the Plan was approximately \$47.3 million.

The SBI oversees the investment options, and the Commissioner of the Minnesota Department of Human Services (DHS) oversees the overall administration of the Plan. The SBI and DHS have contracted jointly with Ascensus to provide administrative, recordkeeping, and investment management services.

Minnesota is one of 19 member states (including the District of Columbia) in the National ABLE Alliance Program, a coalition that has partnered to create and share program efficiencies while maintaining member-state independence. Minnesota joined the National ABLE Alliance in 2017.

Objective & Investment Options

The Plan aims to provide low-cost saving and investment options. Six options seek to accommodate a specific investment goal and risk tolerance by investing in multiple underlying funds.

- **Aggressive Option:** Seeks long-term capital appreciation and does not focus on income generation. Its target allocation is 90% equities and 10% bonds.

- **Moderately Aggressive Option:** Seeks long-term capital appreciation with relatively less focus on income generation. Its target allocation is 75% to equities and 25% to bonds.
- **Growth Option:** Seeks to provide capital appreciation and low current income. Its target allocation is 60% equities and 40% bonds.
- **Moderate Option:** Seeks capital appreciation and, secondarily, moderate current income. Its target allocation is 45% to equities and 55% to bonds.
- **Moderately Conservative Option:** Seeks to provide moderate current income and low capital appreciation. Its target allocation is 30% equities, 45% bonds, and 25% cash.
- **Conservative Option:** Seeks substantial capital preservation, limited current income, and low capital appreciation. Its target allocation is 10% to equities, 30% to bonds, and 60% to cash.
- **Checking Account Option:** Invests 100% of its assets in an FDIC-insured checking account.

Performance

Historical performance as of June 30, 2024, is shown in Figure 58.

Average annual performance includes terminated manager performance. Performance reflects the deduction of investment management fees, program management expenses, and state administrative expenses. Performance greater than one year is annualized. Past performance does not guarantee future results.

Figure 58. Minnesota ABLE Plan Performance (%) For Periods Ending June 30, 2024

Investment Option/Benchmark ¹	Annualized Performance			Market Value ² (in Thousands)	Option Since
	1 Year	3 Year	5 Year		
Aggressive Allocation	14.5	2.1	8.3	\$3,764.7	2016
<i>Aggressive Blended Benchmark</i>	15.0	2.3	8.6		
Moderately Aggressive Allocation	12.6	1.6	7.2	\$4,195.1	2016
<i>Moderately Aggressive Blended Benchmark</i>	13.1	1.9	7.5		
Growth Allocation	10.8	1.3	6.1	\$6,072.4	2016
<i>Growth Blended Benchmark</i>	11.4	1.5	6.4		
Moderate Allocation	9.1	0.9	4.9	\$5,558.7	2016
<i>Moderate Blended Benchmark</i>	9.6	1.1	5.2		
Moderately Conservative Allocation	7.7	1.3	4.0	\$4,973.9	2016
<i>Moderately Conservative Blended Benchmark</i>	8.3	1.6	4.2		
Conservative Allocation	5.6	1.7	2.5	\$8,535.5	2016
<i>Conservative Blended Benchmark</i>	6.3	2.1	2.8		
Checking Account				\$14,155.4	2017
Minnesota ABLE Plan				\$47,255.7	

¹Blended benchmark performance represents the performance of the underlying funds weighted by the target policy allocation.

²Market value of Minnesota ABLE Plan's participation in each investment option.

State-Sponsored Savings Plans

Minnesota College Savings Plan

Minnesota College Savings Plan

The Minnesota College Savings Plan is an education savings plan designed to help families save for future college costs. It is established under the provisions of the Internal Revenue Code Section 529, which authorizes these types of savings plans to help families meet the costs of qualified colleges nationwide.

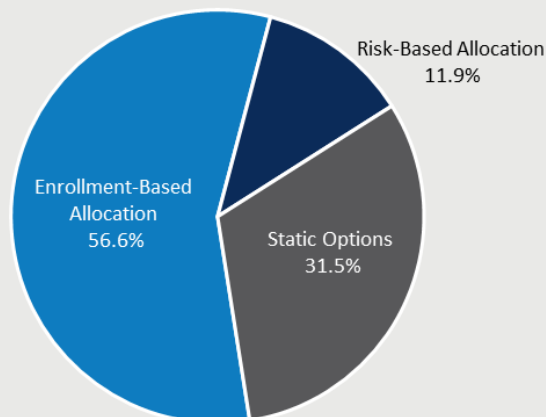
On June 30, 2024, the market value of the Plan was approximately \$2.0 billion.

The Minnesota Legislature authorized the establishment of the Minnesota College Savings Plan in 1997, and the Plan was launched in 2001. The SBI is responsible for overseeing the investment options, and the Minnesota Office of Higher Education (OHE) is responsible for the overall administration of the Plan. The SBI and OHE have contracted jointly with TIAA-CREF Tuition Financing, Inc. (TFI) to provide administrative, marketing, communication, recordkeeping, and investment management services.

Objective and Investment Options

The objective of the Plan is to be competitive in the marketplace by providing quality investment options with low fees to its participants. The Plan is a direct-sold plan (i.e., may be purchased directly without an investment advisor) and offers ten Enrollment-Based Managed Allocation Options, three Risk-Based Allocation Options, and eight Static Investment Options. The Plan includes both active and passive management strategies offered through a selection of TIAA mutual fund

Figure 59. MN College Savings Plan Assets by Investment Option as of June 30, 2024



options. All options are priced daily. Participants may re-allocate their investments twice per calendar year.

The distribution of the Plan's assets across investment option categories as of June 30, 2024, is shown in Figure 59.

Static Options

The static investment options provide investors with a broad selection of asset classes to create their own portfolios based on their desired risk and return profile.

- **U.S. Large Cap Equity Option:** Seeks to provide a favorable long-term total return mainly from capital appreciation. All assets of the fund are invested in an S&P 500 Index fund.
- **Large Cap Responsible Equity Option:** Seeks to provide a favorable long-term total return mainly from capital appreciation. The fund's evaluation process favors companies with leadership in Environmental, Social, and Governance (ESG) performance relative to
- **International Equity Index Option:** Seeks to provide a favorable long-term total return, mainly through capital appreciation. Approximately 80% of the fund is allocated to equity securities of issuers located in developed markets and 20% is allocated to equity securities of issuers located in emerging markets.
- **U.S. and International Equity Option:** Seeks to provide a favorable long-term total return, mainly from capital appreciation, by allocating primarily to a

their peers. The investment process starts with an investable universe of companies from the S&P 500 Index that meet defined ESG performance criteria. The process incorporates a company's exposure to ESG-related issues and involvement in certain business activities. The process also includes a carbon overlay that favors companies reducing carbon emissions in their business and excludes companies owning fossil fuel reserves.

State-Sponsored Savings Plans

Minnesota College Savings Plan

blend of equity and real estate-related securities. Approximately 60% of the fund is allocated to U.S. equity securities, 24% to international developed markets equities, 6% to emerging markets equities, and 10% to real estate-related securities.

— **Equity and Interest Accumulation Option:**

Seeks to provide a moderate long-term total return. Approximately half of its assets are invested in an equity index fund and the other half in a funding agreement issued by TIAA-CREF Life (see the Principal Plus Interest Option in Figure 60 for further detail on the funding agreement).

— **100% Fixed Income**

Option: Seeks to provide preservation of capital along with a moderate rate of return through a diversified mix of fixed income investments. Approximately 70% of the fund is allocated to public, investment-grade, taxable fixed income securities denominated in U.S. dollars, 20% to inflation-linked bonds, and 10% to high yield bonds.

— **Money Market Option:**

Seeks to provide current income consistent with preserving capital. The fund invests only in U.S. government securities and will invest at least 99.5% of its total assets in cash, short-term U.S. government securities, and/or repurchase agreements collateralized fully by cash or U.S. government securities.

— **Principal Plus Interest**

Option: Seeks to preserve capital and provide a stable return. The contributions into this investment option are invested in a funding agreement. The funding agreement provides for safety of principal plus a fixed rate of interest.

Risk-Based Allocation Options

These investment options provide a fixed level of risk and do not change as the beneficiary ages. There are three separate Risk-Based Allocation Options: Aggressive, Moderate, and Conservative.

— **Aggressive Allocation**

Option: Seeks to generate a favorable long-term return by investing in mutual funds that invest primarily in equity securities and, to a lesser extent, fixed income securities. Approximately 48% of the fund is allocated to U.S. equity securities; 19% to developed international equities; 5% to emerging markets equities; 8% real estate securities; 14% to public, investment-grade, taxable fixed income securities denominated in U.S. dollars; 4% to inflation-linked bonds; and 2% to high yield bonds.

— **Moderate Allocation**

Option: Seeks to provide moderate growth by investing in a balanced mix of domestic and foreign equity securities, fixed income, and real estate-related securities. Approximately 36% of the fund is allocated to U.S. equity securities; 14% to developed international equities; 4% to emerging markets equities; 6% to real

estate securities; 28% to public, investment-grade, taxable fixed income securities denominated in U.S. dollars; 8% to inflation-linked bonds; and 4% to high yield bonds.

— **Conservative Allocation**

Option: Seeks to provide a conservative to moderate total return by investing in mutual funds that invest primarily in debt securities and, to a lesser extent, in equity securities. This option also invests in a funding agreement to provide capital preservation. Approximately 18% of the fund is allocated to U.S. equity securities; 7% to developed international equities; 2% to emerging markets equities; 3% real estate securities; 32% to public, investment-grade, taxable fixed income securities denominated in U.S. dollars; 9% to inflation-linked bonds; 4% to high yielding debt securities; and 25% in a funding agreement issued by TIAA-CREF Life (see the Principal Plus Interest Option in Figure 60 for further detail on the funding agreement).

Enrollment-Based Managed Allocation Options

These investment options seek to define the investment objective and level of risk to the beneficiary's investment horizon by considering the number of years before the beneficiary is expected to enter college. Depending on the length of time until the beneficiary is expected to attend school, the assets contributed to this option are placed in one of ten enrollment categories.

State-Sponsored Savings Plans

Minnesota College Savings Plan

As the beneficiary progresses towards college age, the asset allocation transitions to a more conservative portfolio. The enrollment options for younger beneficiaries seek favorable long-term returns by investing with relatively higher exposures to equities. As a beneficiary nears college age, the allocation to equity and real estate are reduced in favor of fixed income and money market securities to preserve capital.

Performance

Historical performance as of June 30, 2024, is shown in Figure 60.

Average annual performance includes terminated manager performance. Performance reflects the deduction of investment management fees, program management expenses, and state administrative expenses. Performance greater than one year is annualized. Past performance does not guarantee future results.

Figure 60. Minnesota College Savings Plan Performance (%) For Periods Ending June 30, 2024

Investment Option/Benchmark ¹	Annualized Performance			Market Value ² (in Thousands)	Option Since
	1 Year	3 Year	5 Year		
Static Options					
U.S Large Cap Equity	24.3	9.9	14.9	\$163,222.7	2014
<i>S&P 500 Index</i>	24.6	10.0	15.1		
Large Cap Responsible Equity	21.5	7.0	-	\$3,164.6	2021
<i>S&P 500 Index</i>	24.4	8.4	-		
International Equity Index	11.5	1.6	6.0	\$11,306.7	2013
<i>Blended Benchmark</i>	11.8	1.4	5.9		
U.S. and International Equity	17.8	5.2	10.6	\$304,964.9	2001
<i>Blended Benchmark</i>	18.1	5.4	10.7		
Equity and Interest Accumulation	12.5	5.1	8.1	\$10,828.1	2014
<i>Blended Benchmark</i>	14.4	6.0	8.5		
100% Fixed Income	3.9	-1.6	0.7	\$18,214.2	2007
<i>Blended Benchmark</i>	4.0	-1.5	0.9		
Money Market	5.3	3.0	2.0	\$29,579.8	2007
<i>iMoneyNet All Taxable Money Fund Average</i>	5.1	2.9	1.9		
Principal Plus Interest ³	2.7	1.8	1.8	\$95,454.4	2001
<i>FTSE 3 Month T-Bill</i>	5.6	3.2	2.2		
Allocation Options					
Aggressive Allocation	14.9	3.9	8.8	\$110,969.5	2014
<i>Aggressive Blended Benchmark</i>	15.3	4.1	8.8		
Moderate Allocation	12.1	2.5	6.9	\$109,736.9	2007
<i>Moderate Blended Benchmark</i>	12.4	2.8	7.0		
Conservative Allocation	7.7	1.4	4.1	\$19,261.9	2014
<i>Conservative Blended Benchmark</i>	8.7	1.9	4.4		
Enrollment-Based Options⁴					
In School Enrollment	5.0	1.3	-	\$281,517.6	2019
<i>In School Enrollment Blended Benchmark</i>	7.0	2.1	-		
2024/2025 Enrollment	5.7	0.6	-	\$182,499.5	2019
<i>2024/2025 Blended Benchmark</i>	7.3	1.4	-		
2026/2027 Enrollment	7.3	0.9	-	\$145,221.2	2019
<i>2026/2027 Blended Benchmark</i>	8.3	1.4	-		
2028/2029 Enrollment	9.0	1.4	-	\$114,855.0	2019
<i>2028/2029 Blended Benchmark</i>	9.6	1.7	-		
2030/2031 Enrollment	10.6	2.0	-	\$94,534.0	2019
<i>2030/2031 Blended Benchmark</i>	11.0	2.2	-		
2032/2033 Enrollment	12.1	2.6	-	\$84,679.2	2019
<i>2032/2033 Blended Benchmark</i>	12.4	2.8	-		
2034/2035 Enrollment	13.2	3.2	-	\$80,191.4	2019
<i>2034/2035 Blended Benchmark</i>	13.5	3.4	-		
2036/2037 Enrollment	13.9	3.5	-	\$100,792.1	2019
<i>2036/2037 Blended Benchmark</i>	14.2	3.7	-		
2038/2039 Enrollment	14.5	3.8	-	\$45,048.6	2021
<i>2038/2039 Blended Benchmark</i>	14.8	3.9	-		
2040/2041 Enrollment	14.9	-	-	\$15,816.4	2023
<i>2040/2041 Blended Benchmark</i>	15.2	-	-		
Minnesota College Savings Plan				\$2,021,858.7	

¹Blended benchmark returns represent the performance of the underlying funds weighted by the target policy allocation.
²Market value of Minnesota College Savings Plan's participation in each investment option.
³Guaranteed annual crediting rate of 3.0% resets 8/31/25.
⁴Transitioned from Age-Based Investment Options to Enrollment Year-Based Investment Options as of 10/25/2019.

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Non-Retirement Investment Program

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Non-Retirement Investment Program

Investment Program Overview

Overview

The SBI manages the Non-Retirement Investment Program for designated trust funds, Other Postemployment Benefit (OPEB) trusts, Qualifying Governmental Entities, and other programs created by the Minnesota Constitution and Legislature.

On June 30, 2024, the market value of all Non-Retirement Funds assets managed by the SBI was approximately \$6.4 billion.

The SBI established the Non-Retirement Funds to provide eligible Minnesota public sector entities with the opportunity to invest in broad asset class options to aid them in achieving their investment objectives.

Investment Options and Performance

For eligible participating entities, there are three asset class investment options: an Equity Fund, a Bond Fund, and a Money Market Fund. In addition to these options, the SBI manages dedicated portfolios for the Assigned Risk Plan, City of Duluth OPEB, and Met Council OPEB. These portfolios invest in fixed income securities and have investment objectives specific to each account.

The breakout of Non-Retirement Funds assets as of June 30, 2024, is listed in Figure 61.

Average annual performance includes terminated manager performance. Performance reflects the deduction of investment management fees. Performance greater than one year is annualized. Past

performance does not guarantee future results.

Participating Entities

The Non-Retirement Funds are available to those entities authorized to invest in these asset classes with the SBI.

Figure 62 provides the composition of the Non-Retirement Investment Program by participating entity type. These entities may allocate their investments among one or more funds that are appropriate for

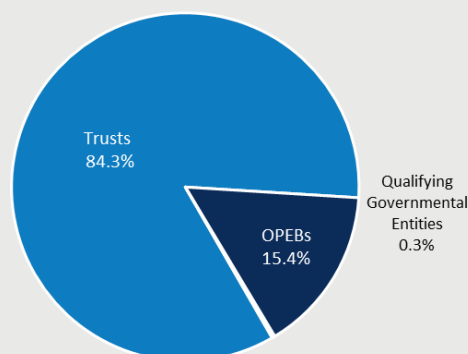
their needs and are within the rules and eligibility established for their account.

Figures 63-65 on the next page provide a breakdown of the participating entities that invest in the Non-Retirement Funds.

Figure 61. Non-Retirement Funds by Investment Option as of June 30, 2024

Investment Option	Market Value (in Thousands)	% of Assets
Non-Retirement Equity Fund	\$3,515,247.2	54.6%
Non-Retirement Bond Fund	1,732,312.8	26.9%
Non-Retirement Money Market Fund	732,395.1	11.4%
Assigned Risk Plan Intermediate Government Bond Fund	221,115.2	3.4%
Duluth Ladder Fixed Income Portfolio	113,701.5	1.8%
Met Council Ladder Fixed Income Portfolio	120,766.0	1.9%
Non-Retirement Investment Program	\$6,435,537.8	100%

Figure 62. Non-Retirement Investment Program Participation by Entity Type as of June 30, 2024



Non-Retirement Investment Program Participation by Entity Type as of June 30, 2024

Participating Entity Type	Market Value (in Thousands)	% of Assets
Trusts	\$5,426,141.5	84.3%
OPEBs (Other Post Employment Benefits)	992,004.2	15.4%
Qualifying Governmental Entities	17,392.2	0.3%
Total Non-Retirement Assets	\$6,435,537.8	100%

Non-Retirement Investment Program

Investment Program Overview

Investment Management

Non-Retirement Equity Fund

Mellon Investments Corporation passively manages this Fund in a separate account that seeks to track the performance of the S&P 500 Index.

The Non-Retirement Equity Fund summary is provided on page 149.

Non-Retirement Bond Fund

This Fund is actively managed by Prudential Global Investment Management (PGIM) and seeks to outperform the Bloomberg U.S. Aggregate Bond Index.

The Non-Retirement Bond Fund summary is provided on page 150.

Non-Retirement Money Market Fund

The Money Market Fund provides safety of principal by investing in high-quality, short-term money market securities. State Street Global Advisors manages this Fund.

The Non-Retirement Money Market Fund summary is provided on page 151.

Assigned Risk Plan Fixed Income Portfolio

The Assigned Risk Plan fixed income portfolio is actively managed by RBC Global Asset Management to provide income and preserve invested principal to support the payment of worker compensation claims.

The Fund summary for the Assigned Risk Plan fixed income portfolio is provided on page 152.

Figure 63. Participating Trusts as of June 30, 2024

Trust Account	Market Value (in Thousands)	% of Assets
Assigned Risk Plan	\$277,432.0	5.1%
Closed Landfill Investment Fund	150,867.7	2.8%
Environmental Trust Fund	1,878,656.3	34.6%
Permanent School Fund	2,130,202.8	39.3%
Other Trust Accounts ¹	988,982.7	18.2%
Total	\$5,426,141.5	100%

¹Includes the assets of Center for Rural Policy and Development, Duluth Community Investment Trust, Emergency Medical Services, Ethel Currey, Giants Ridge, IRRR (Iron Range Resources and Rehabilitation), Lifetime Fish and Wildlife, Metropolitan Landfill Contingency Action Trust, Mitigation Easement Stewardship, Natural Resources Conservation, Saint Louis County Environmental, Water and Soil Conservation Easement, Winona State, and 3M East Metro Trusts.

Figure 64. Participating OPEBs as of June 30, 2024

OPEB Account	Market Value (in Thousands)	% of Assets
Anoka County (Irrevocable)	\$121,143.6	12.2%
City of Duluth	113,701.5	11.5%
Metropolitan Council	364,263.9	36.7%
Ramsey County (Irrevocable)	139,978.0	14.1%
Washington County	114,831.0	11.6%
Other OPEB Accounts ¹	138,086.1	13.9%
Total	\$992,004.2	100%

¹Includes the assets of Carver County, City of Eagan, City of Virginia, Crosby-Ironton ISD #182, Fillmore Central Schools #2198, Foley Public Schools ISD #51, Hastings ISD #200, Kingsland ISD #2137, Mendota Heights Eg WSP #197, Metro Mosquito Control District, Mounds View ISD #621, Mt. Iron-Buhl District #712, Ogilvie ISD #333, Port Authority of the City of St. Paul, Roseville District #623, Scott County, Staples Motley #2170.

Figure 65. Participating Qualifying Governmental Entities as of June 30, 2024

Qualifying Governmental Entity Account	Market Value (in Thousands)	% of Assets
Carver County Minnesota	\$3,681.7	21.2%
Minnesota Counties Intergovernmental Trust	6,688.7	38.5%
City of Robbinsdale	104.9	0.6%
City of Woodbury	6,916.9	39.8%
Total	\$17,392.2	100%

Non-Retirement Investment Program

Investment Option: Non-Retirement Equity Fund

Non-Retirement Equity Fund

Investment Objective

The Non-Retirement Equity Fund is passively managed to provide investors exposure to large cap domestic equities. It is available to state and other trust funds, OPEB accounts, and Qualifying Governmental Entities.

The investment objective of the Non-Retirement Equity Fund is to track the S&P 500 Index, a widely used benchmark of large-capitalization U.S. stocks. The Fund is expected to have a realized active risk level relative to the benchmark of 0.2% or less, where active risk is the annualized standard deviation of the manager's excess returns relative to the benchmark. Over time, the annual return shortfall relative to the benchmark, due to fees and trading expenses, is expected to be within 0.1%.

As of June 30, 2024, the Non-Retirement Equity Fund had a market value of approximately \$3.5 billion.

Investment Management

In 2017, Mellon Investments Corporation was hired to manage the Fund. Prior to Mellon, the Fund was managed internally by SBI staff.

Mellon employs an index replication strategy by owning all the stocks in the S&P 500 Index at the weightings assigned by the Index.

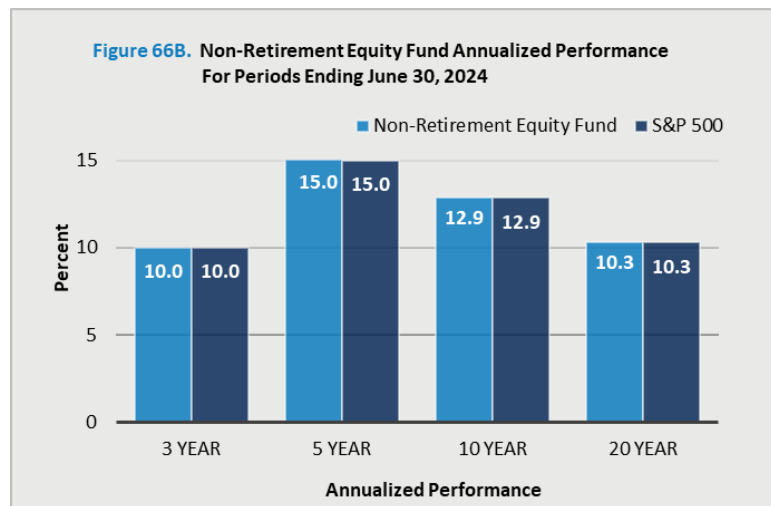
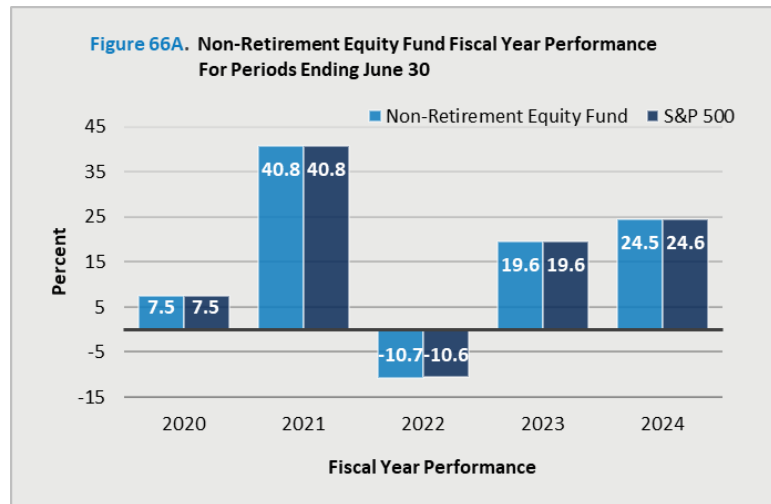
To maintain appropriate liquidity for daily cash flows, the manager holds some cash in the portfolio, equitized using S&P 500 futures contracts.

Mellon is required to adhere to the SBI's investment guidelines in managing the account.

Investment Performance

The Non-Retirement Equity Fund returned +24.5% in fiscal year 2024, closely tracking the S&P 500 Index. The Fund also tracked the benchmark return over the trailing three-, five-, 10- and 20-year periods ended June 30, 2024.

Historical performance results are shown in Figures 66A and 66B.



Non-Retirement Program

Investment Option: Non-Retirement Bond Fund

Non-Retirement Bond Fund

Investment Objective

The Non-Retirement Bond Fund is actively managed to provide investors exposure to investment grade fixed income securities. It is available to state and other trust funds and OPEB accounts.

The Non-Retirement Bond Fund’s investment objective is to deliver positive returns over its benchmark, the Bloomberg U.S. Aggregate Bond Index, while controlling the level and composition of active risk relative to the benchmark. The U.S. Aggregate Bond Index is a broad-based index of investment grade, U.S. dollar-denominated fixed income securities.

As of June 30, 2024, the Non-Retirement Bond Fund had a market value of approximately \$1.7 billion.

Investment Management

In 2017, Prudential Global Investment Management (PGIM) was hired to manage the Fund. Prior to PGIM, the Fund was managed internally by SBI staff.

PGIM is required to adhere to the SBI’s investment guidelines in managing the account. The Fund’s guidelines give PGIM the flexibility to seek to outperform the benchmark through active positioning across duration, yield curve, and sector positioning, as well as through individual security selection decisions. PGIM is expected to maintain a maximum active risk level of 1.5%, where active risk is the annualized standard deviation of the manager’s excess returns relative to the benchmark. PGIM is required to maintain the

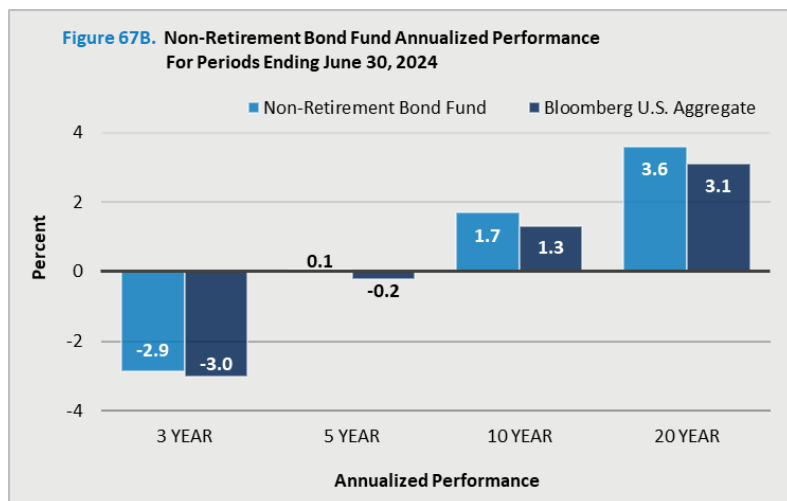
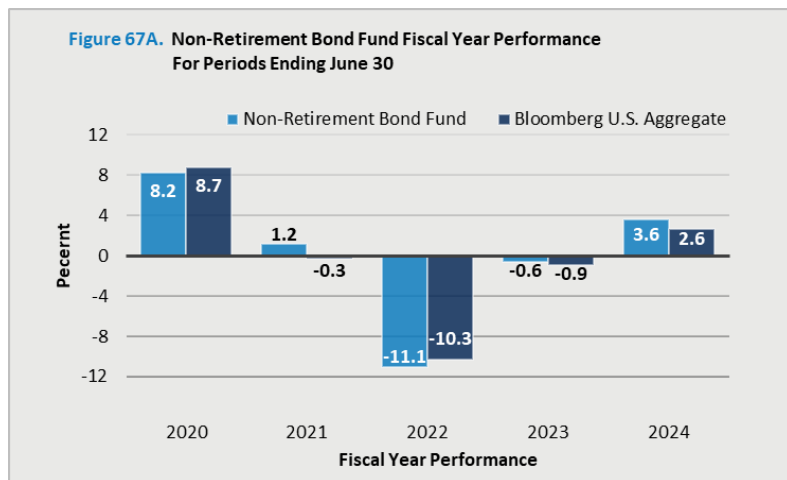
duration of the portfolio within +/- one year of the index duration.

The Fund primarily invests in U.S. government, corporate, mortgage, and structured securities. As an actively managed strategy, the Fund’s sector allocation is expected to deviate from the benchmark composition. As of June 30, 2024, the Fund had a higher allocation to corporate bonds and commercial mortgage-backed securities and less exposure to U.S. Government securities relative to its benchmark, the Bloomberg U.S. Aggregate Bond Index.

Investment Performance

The Non-Retirement Bond Fund returned +3.6% in fiscal year 2024, outperforming its benchmark by 1.0 percentage points. The Fund also outperformed its benchmark for the trailing three-, five-, 10- and 20-year periods ended June 30, 2024.

Historical performance results are shown in Figures 67A and 67B.



Non-Retirement Program

Investment Option: Non-Retirement Money Market Fund

Non-Retirement Money Market Fund

Investment Objective

The Non-Retirement Money Market Fund invests in high-quality short-term cash investments. Entities that may invest in the Fund include state and other trust funds and OPEB accounts.

The Fund is not a “money market fund” registered with the U.S. Securities Exchange Commission (SEC) and is not subject to the various rules and limitations that apply to such funds.

The objective of the Non-Retirement Money Market Fund is to provide current income and protect invested principal. The Fund’s return is based on the interest income generated by its investments rather than price appreciation.

As of June 30, 2024, the Non-Retirement Money Market Fund had a market value of approximately \$732 million.

Investment Management

State Street Global Advisors manages the Non-Retirement Money Market Fund.

The Fund invests in high-quality short-term money market securities, including U.S. Treasury and Agency issues, repurchase agreements, commercial paper, and certificates of deposit.

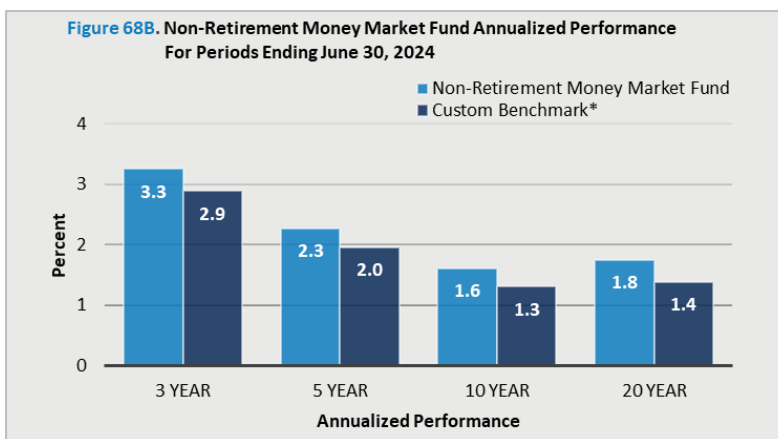
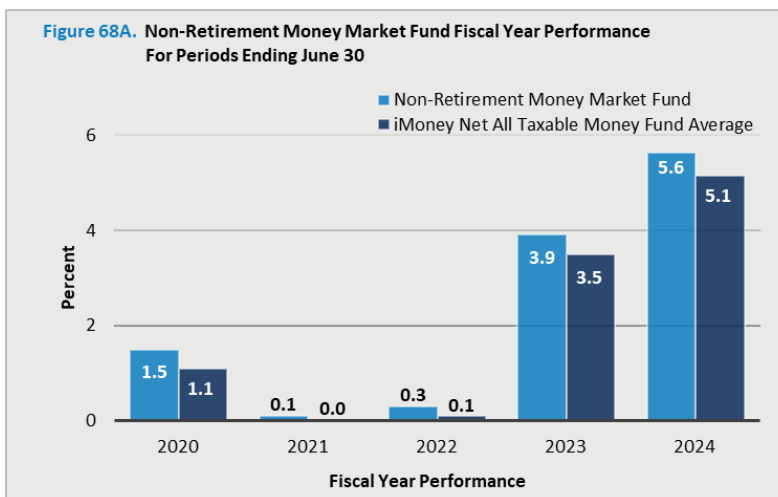
At the end of the fiscal year, the Non-Retirement Money Market Fund had a current yield of 5.46% and a weighted average maturity of 41 days.

Investment Performance

The SBI measures the Non-Retirement Money Market Fund against the iMoneyNet All Taxable Money Fund Average.

The Non-Retirement Money Market Fund returned +5.6% in fiscal year 2024, outperforming its benchmark by 0.5 percentage points. The Fund also outperformed its benchmark for the trailing three-, five-, 10- and 20-year periods ended June 30, 2024.

Historical performance results are shown in Figures 68A and 68B.



*The Custom Benchmark represents the performance of the iMoneyNet All Taxable Money Fund Average since 01/01/2004 and the ICE BofA 3 Month T-Bill Index prior to 12/31/2003.

Non-Retirement Investment Program

Assigned Risk Plan Fixed Income Portfolio

Assigned Risk Plan Fixed Income Portfolio

Investment Objective

The main objective of the Assigned Risk Plan fixed income portfolio is to provide income and preservation of invested principal to support the payment of worker compensation claims. Because of the uncertainty of the timing and size of premiums and liability cash flows, the assets are invested conservatively in a portfolio of high-quality fixed income securities.

The Assigned Risk Plan fixed income portfolio is benchmarked to the Bloomberg Intermediate U.S. Government Index, which consists of high-quality, U.S. dollar-denominated, fixed income securities issued by the U.S. Government and its agencies with maturities up to 10 years.

As of June 30, 2024, the Assigned Risk Plan fixed income portfolio had a market value of approximately \$221.1 million.

Investment Management

RBC Global Asset Management (RBC) has managed the fixed income portfolio for the Assigned Risk Plan since July 1991. RBC actively manages the portfolio with a primary focus on individual security selection and, secondarily, on sector allocation and rotation.

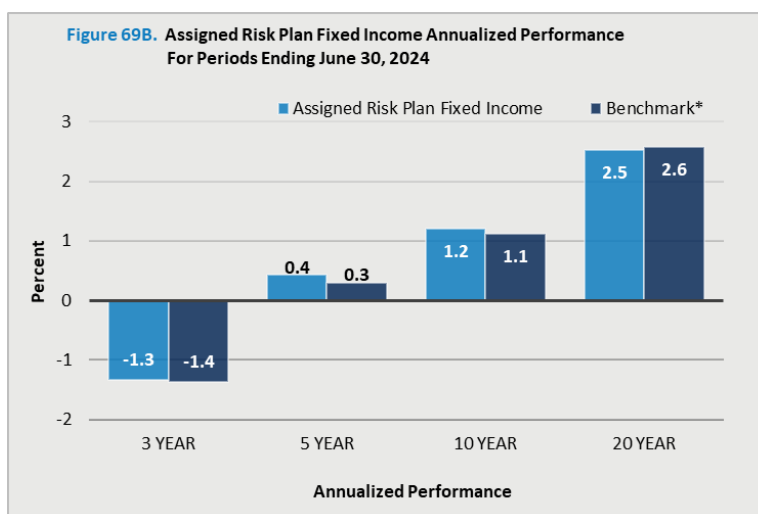
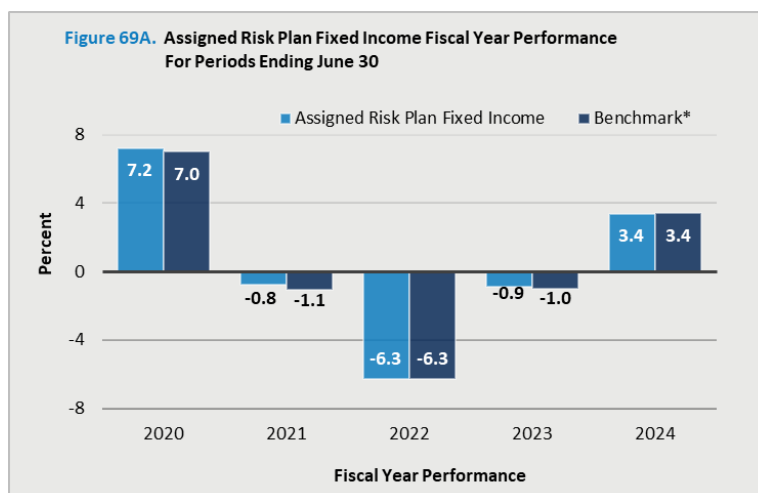
RBC is required to adhere to SBI's investment guidelines in managing the account. These guidelines allow RBC to actively manage the portfolio through duration, yield curve, sector, and security selection while closely tracking its benchmark.

As an actively managed strategy, the portfolio's sector allocation is expected to deviate from the benchmark composition. As of June 30, 2024, the Assigned Risk Plan fixed income portfolio had a higher allocation to U.S. Government-related and Agency-securitized bonds and less exposure to U.S. Treasury securities relative to the benchmark. Portfolio duration, a measure of how sensitive a bond portfolio is to changes in interest rates, matched its benchmark duration at 3.6 years.

Investment Performance

For fiscal year 2024, the Assigned Risk Plan fixed income portfolio returned +3.4%, matching the benchmark. The portfolio slightly outperformed its composite index over the trailing three-, five-, and 10-year periods and slightly underperformed for the trailing 20-year period ending June 30, 2024.

Historical performance results for the Assigned Risk Plan fixed income portfolio are shown in Figures 69A and 69B.



*The current benchmark is the Bloomberg Intermediate U.S. Government Index. Prior to 7/1/2011, the benchmark was a composite of 10% 90 Day T-Bill, 25% Merrill 1-3 Government, 15% Merrill 3-5 Government, 25% Merrill 5-10 Government, and 25% Merrill Mortgage Master.

Non-Retirement Investment Program

Permanent School Fund

Permanent School Fund

The Permanent School Fund is a trust fund established by [Article XI, Section 8](#) of the Minnesota Constitution and designated as a long-term revenue source for public schools. Proceeds from land sales, mining royalties, timber sales, lakeshore, and other leases are invested in the Fund.

As of June 30, 2024, the Fund's market value was approximately \$2.1 billion.

Investment Objective

The SBI invests the Permanent School Fund in a manner to produce annual distributions in support of Minnesota schools, while maintaining the Fund as a perpetual financial resource.

Investment Constraints

The Fund's investment objectives are dictated by the legal provisions under which its investments must be managed. These provisions require that the Fund's principal remain inviolate. Any net realized capital gains from stock or bond investments must be added to the principal. Moreover, if the Fund realizes net capital losses, these losses must be offset against interest and dividend income before such income can be distributed. Finally, all interest and dividend income must be distributed in the year earned.

Asset Allocation

To produce a growing level of spendable income, the Fund invests a portion of its assets in equities. The Fund's allocation to fixed income and cash provides current income, liquidity, and risk diversification.

The current long-term asset allocation targets for the Fund are:

Domestic Equity	50%
Domestic Bonds	48%
Cash	2%

The SBI follows a disciplined approach to rebalancing to maintain the target asset allocation and risk exposure over time.

Prior to fiscal year 1998 legislation, the Permanent School Fund was invested entirely in fixed income securities.

Figure 70 presents the Permanent School Fund's actual asset mix at the end of fiscal year 2024.

Investment Management

Assets of the Permanent School Fund are invested in the

Non-Retirement Equity, Bond, and Money Market Funds. Fund summaries are provided on pages 149-151.

Investment Performance

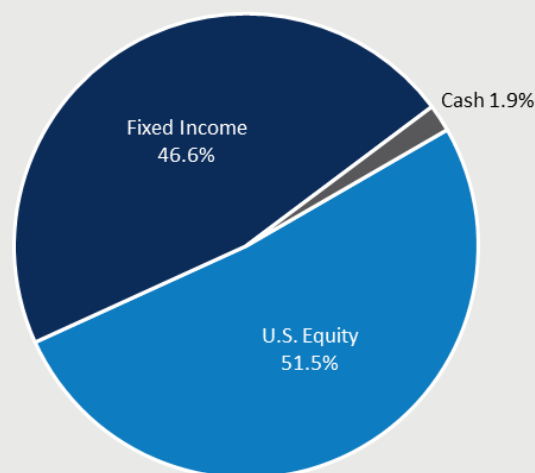
The **equity** segment of the Permanent School Fund closely tracked its benchmark, the S&P 500 Index, in fiscal year 2024.

The **bond** segment outperformed its benchmark, the Bloomberg U.S. Aggregate, by 1.0 percentage points in fiscal year 2024.

The **cash** segment outperformed its benchmark, the iMoneyNet All Taxable Money Fund Average, by 0.5 percentage points in fiscal year 2024.

Overall, the Permanent School Fund provided a return of +14.0% in fiscal year 2024, outperforming its composite index by 0.7 percentage points.

Figure 70. Permanent School Fund Asset Mix as of June 30, 2024



Non-Retirement Investment Program

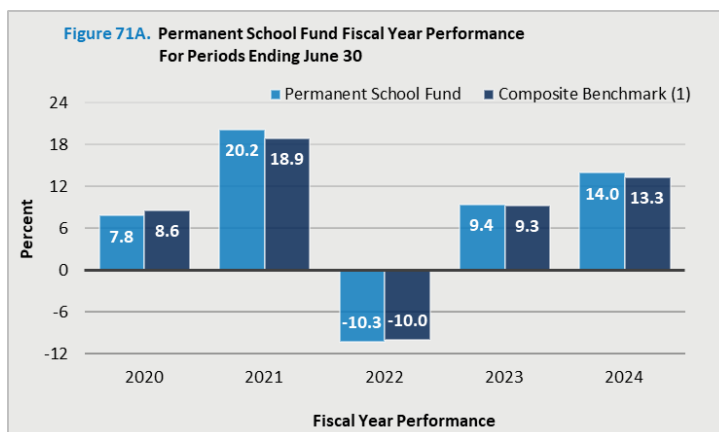
Permanent School Fund

The Fund also outperformed its composite index over the trailing three-, five-, 10-, and 20-year periods ending June 30, 2024.

Historical performance results for the total Fund and each asset class segment are provided in Figures 71A and 71B.

Spendable income generated by the portfolio over the last five fiscal years is shown below:

Fiscal Year	In Millions
2020	\$39
2021	\$36
2022	\$36
2023	\$43
2024	\$53

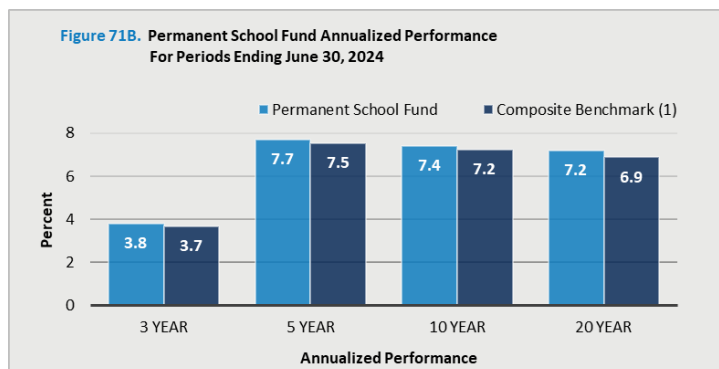


(1) Composite Benchmark represents the aggregate return of the respective sub-asset group benchmark returns weighted by the target allocation.

Permanent School Fund Fiscal Year Performance (%) For Periods Ending June 30

Segment/Benchmark	2020	2021	2022	2023	2024
U.S. Equity Segment	7.5	40.8	-10.6	19.7	24.5
S&P 500	7.5	40.8	-10.6	19.6	24.6
Bond Segment	8.2	1.2	-11.1	-0.6	3.6
U.S. Bloomberg Aggregate	8.7	-0.3	-10.3	-0.9	2.6
Cash Segment	1.5	0.1	0.2	4.0	5.6
iMoney Net All Taxable Money Fund Average	1.1	0.0	0.1	3.5	5.1
Permanent School Fund	7.8	20.2	-10.3	9.4	14.0
Composite Benchmark¹	8.6	18.9	-10.0	9.3	13.3

¹ Composite benchmark represents the aggregate return of the respective sub-asset group benchmark returns weighted by the target allocation.



(1) Composite Benchmark represents the aggregate return of the respective sub-asset group benchmark returns weighted by the target allocation.

Permanent School Fund Annualized Performance (%) For Periods Ending June 30, 2024

Segment/Benchmark	3 Year	5 Year	10 Year	20 Year
U.S. Equity Segment	10.0	15.0	12.9	10.3
S&P 500	10.0	15.0	12.9	10.3
Bond Segment	-2.9	0.1	1.7	3.6
U.S. Bloomberg Aggregate	-3.0	-0.2	1.3	3.1
Cash Segment	3.3	2.3	1.6	1.8
Custom Benchmark ¹	2.9	2.0	1.3	1.4
Permanent School Fund	3.8	7.7	7.4	7.2
Composite Benchmark²	3.7	7.5	7.2	6.9

¹ Custom Benchmark is the iMoneyNet All Taxable Money Fund Average since 1/1/2004; prior to that it was the ICE BofA 3 Month T-Bill Index.
² Composite benchmark represents the aggregate return of the respective sub-asset group benchmark returns weighted by the target allocation.

Non-Retirement Investment Program

Environmental and Natural Resources Trust Fund

Environmental and Natural Resources Trust Fund

The Environmental and Natural Resources Trust Fund (Environmental Trust Fund) was established in 1988 by the Minnesota Legislature under [Minnesota Statutes, Chapter 116P](#) to provide a long-term, consistent, and stable funding source for activities that protect and enhance the environment. By statute, the SBI is responsible for investing the assets of the Environmental Trust Fund. The Minnesota Legislature funds environmental projects from a portion of the market value of the Fund.

As of June 30, 2024, the market value of the Fund was approximately \$1.9 billion.

Investment Objective

The Environmental Trust Fund's investment objective is to generate long-term capital growth to support a growing level of funding while maintaining adequate portfolio liquidity.

A constitutional amendment passed in November 1998 mandated that 40% of the net proceeds from the state lottery be credited to the Fund through 2025.

The amendment provided for an annual spending rate of 5.5% of the Fund's market value. The amendment eliminated certain accounting restrictions on capital gains and losses and removed the provision that the principal must remain inviolate.

Asset Allocation

After the constitutional amendment was adopted in November 1998, SBI staff

worked with the Legislative-Citizen Commission on Minnesota Resources to establish an asset allocation policy consistent with the Commission's goals for spending and growth of the Fund. The Fund's asset allocation is designed to provide appropriate long-term growth potential to meet the Fund's objective of producing a growing level of funding while also providing adequate liquidity and diversification.

The current long-term asset allocation targets for the Fund are:

Domestic Equity	70%
Domestic Bonds	28%
Cash	2%

The SBI follows a disciplined approach to rebalancing to maintain the target asset allocation and risk exposure over time.

Figure 72 presents the actual asset mix of the Fund at the end of fiscal year 2024.

Investment Management

Assets of the Environmental Trust Fund are invested in the Non-Retirement Equity, Bond, and Money Market Funds. Fund summaries are provided on pages 149-151.

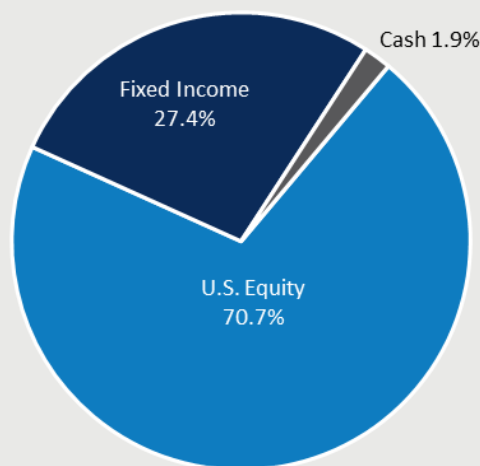
Investment Performance

The *equity* segment closely tracked its benchmark, the S&P 500 Index, in fiscal year 2024.

The *bond* segment outperformed its benchmark, the Bloomberg U.S. Aggregate, by 1.0 percentage points in fiscal year 2024.

The *cash* segment outperformed its benchmark, the iMoneyNet All Taxable Money Fund Average, by 0.5 percentage points in fiscal year 2024.

Figure 72. Environmental Trust Fund Asset Mix as of June 30, 2024



Non-Retirement Investment Program

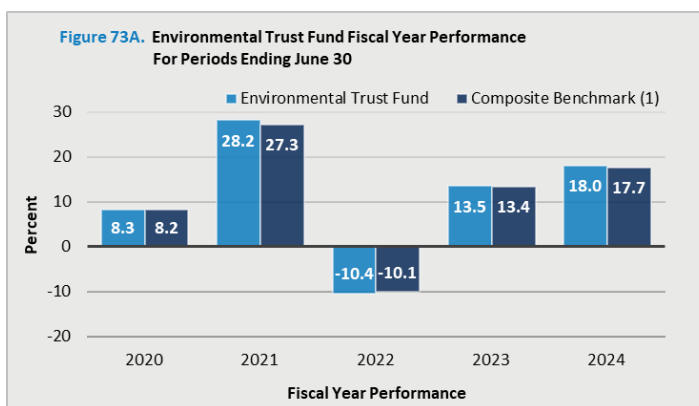
Environmental and Natural Resources Trust Fund

Overall, the Environmental Trust Fund provided a return of +18.0% in fiscal year 2024, outperforming its composite index by 0.3 percentage points over the period. The Fund matched or exceeded its composite index over the trailing three-, five-, 10-, and 20-year periods ending June 30, 2024.

Historical performance results for the total Fund and each of the asset class segments are presented in Figure 73A and 73B.

Spendable income generated by the Fund over the last five fiscal years is shown below:

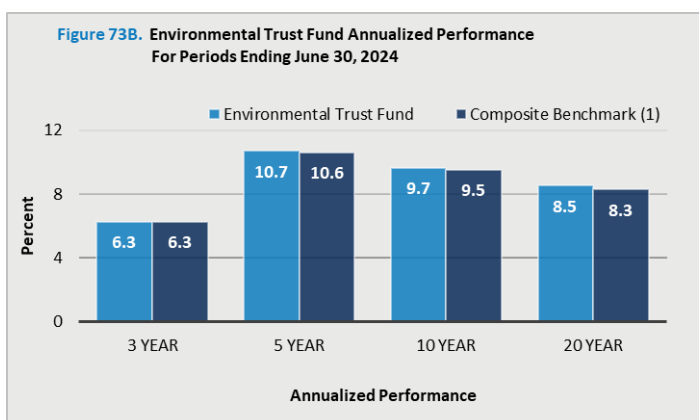
<u>Fiscal Year</u>	<u>In Millions</u>
2020	\$61
2021	\$61
2022	\$71
2023	\$71
2024	\$80



(1) Composite Benchmark represents the aggregate return of the respective sub-asset group benchmark returns weighted by the target allocation.

Segment/Benchmark	2020	2021	2022	2023	2024
U.S. Equity Segment	7.5	40.8	-10.6	19.7	24.5
S&P 500	7.5	40.8	-10.6	19.6	24.6
Bond Segment	8.2	1.2	-11.1	-0.6	3.6
U.S. Bloomberg Aggregate	8.7	-0.3	-10.3	-0.9	2.6
Cash Segment	1.5	0.1	0.2	4.0	5.6
iMoney Net All Taxable Money Fund Average	1.1	0.0	0.1	3.5	5.1
Environmental Trust Fund	8.3	28.2	-10.4	13.5	18.0
Composite Benchmark¹	8.2	27.3	-10.1	13.4	17.7

¹ Composite benchmark represents the aggregate return of the respective sub-asset group benchmark returns weighted by the target allocation.



(1) Composite Benchmark represents the aggregate return of the respective sub-asset group benchmark returns weighted by the target allocation.

Segment/Benchmark	3 Year	5 Year	10 Year	20 Year
U.S. Equity Segment	10.0	15.0	12.9	10.3
S&P 500	10.0	15.0	12.9	10.3
Bond Segment	-2.9	0.1	1.7	3.6
U.S. Bloomberg Aggregate	-3.0	-0.2	1.3	3.1
Cash Segment	3.3	2.3	1.6	1.8
iMoney Net All Taxable Money Fund Average	2.9	2.0	1.3	1.4
Environmental Trust Fund	6.3	10.7	9.7	8.5
Composite Benchmark¹	6.3	10.6	9.5	8.3

¹ Composite benchmark represents the aggregate return of the respective sub-asset group benchmark returns weighted by the target allocation.

² Custom Benchmark is the iMoneyNet All Taxable Money Fund Average since 1/1/2004; prior to that it was the ICE BofA 3 Month T-Bill Index.

Non-Retirement Investment Program

Closed Landfill Investment Fund

Closed Landfill Investment Fund

The Closed Landfill Investment Fund is a trust fund established by the Minnesota Legislature in 1999 under [Minnesota Statutes, Section 115B.421](#) to invest money to pay for the long-term costs of maintaining the integrity of landfills in Minnesota once they are closed.

As of June 30, 2024, the Fund's market value was approximately \$150.9 million.

Investment Objective

The investment objective of the Closed Landfill Investment Fund is to grow the value of the Fund to meet future expenditure needs while maintaining an appropriate level of market risk.

Asset Allocation

An allocation to equities provides the potential for capital appreciation, while the allocation to fixed income securities acts as a deflation hedge and provides portfolio diversification.

The current long-term asset allocation targets for the Fund are:

Domestic Equity	70%
Domestic Bonds	30%

The SBI follows a disciplined approach to rebalancing to maintain the target asset allocation and risk exposure over time.

Before September 2014, the Closed Landfill Investment Fund had been invested entirely in domestic equities. While this asset allocation maximized long-term growth opportunities, it did not represent a diversified asset allocation and experienced

greater return volatility relative to a balanced asset allocation.

Investment Management

Assets of the Closed Landfill Investment Fund are invested in the Non-Retirement Equity and Bond Funds. Fund summaries are provided on pages 149-150.

Investment Performance

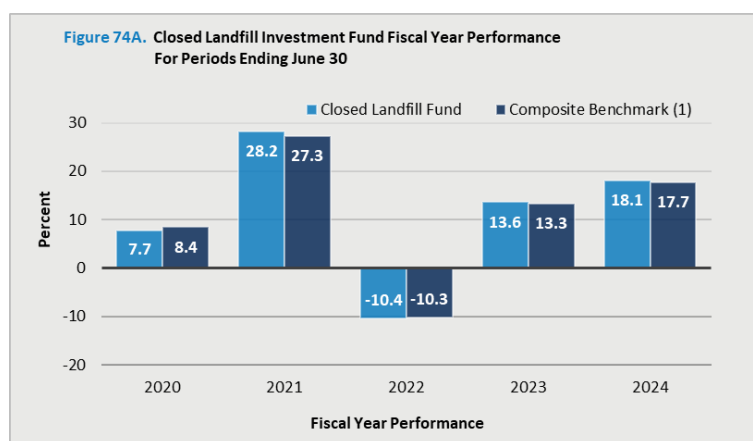
The *equity* segment of the Closed Landfill Investment Fund closely tracked its benchmark, the S&P 500 Index, in fiscal year 2024.

The *bond* segment outperformed the Bloomberg U.S. Aggregate

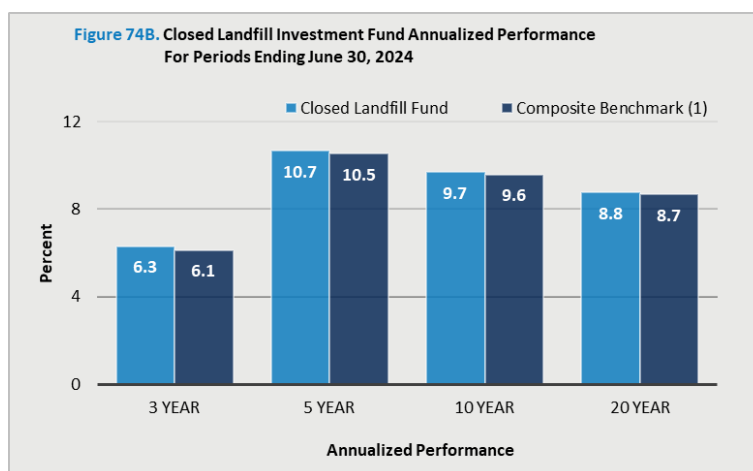
benchmark by 1.0 percentage points in fiscal year 2024.

Overall, the Closed Landfill Investment Fund provided a return of +18.1% in fiscal year 2024, outperforming its composite index by 0.4 percentage points. The Fund exceeded its composite index over the trailing three-, five-, 10-, and 20-year periods ending June 30, 2024.

Historical performance results for the total Fund and each asset class segment are shown in Figures 74A and 74B.



(1) Composite Benchmark represents the aggregate returns of the target allocation: 70% S&P 500 and 30% Bloomberg U.S. Aggregate since September 2014; prior to that the target allocation was 100% S&P 500.



(1) Composite Benchmark represents the aggregate returns of the target allocation: 70% S&P 500 and 30% Bloomberg U.S. Aggregate since September 2014; prior to that the target allocation was 100% S&P 500.

Non-Retirement Investment Program

Assigned Risk Plan

Assigned Risk Plan

The Minnesota Workers Compensation Assigned Risk Plan was established in 1983 under [Minnesota Statutes, Chapter 79](#) to provide workers' compensation coverage to Minnesota employers rejected by a private insurance carrier. The Assigned Risk Plan operates as a non-profit, tax-exempt entity administered by the Department of Commerce. The Plan provides disability income, medical expenses, retraining expenses, and death benefits with payments made periodically or in a lump sum.

As of June 30, 2024, the Plan's market value was approximately \$277.4 million.

Investment Objectives

The SBI recognizes that the Assigned Risk Plan has limited tolerance for risk due to unpredictable cash flows, no allowance for surplus, and generally short-duration liabilities.

Therefore, the SBI has established two investment objectives for the Plan:

- To minimize any mismatch between assets and liabilities.
- To provide sufficient liquidity to pay ongoing claims and operating expenses.

Performance relative to these objectives is measured against a composite index that reflects the portfolio's asset allocation.

Asset Allocation

Due to the uncertainty of the Plan's premium and liability cash flows, it is invested in a conservative asset allocation.

The current long-term asset allocation targets for the Plan are as follows:

Domestic Equity	20%
Domestic Bonds	80%

The fixed income portion of the portfolio is invested to fund the Plan's shorter-term liabilities (less than 10 years), while the equity component of the portfolio is intended to provide long-term growth potential and hedge some of the inflation risk associated with the Plan's future liabilities.

The asset allocation may be updated in response to changes in the liability stream projected by the Plan's actuary and ongoing analysis by SBI staff.

Figure 75 presents the asset mix of the Assigned Risk Plan at the end of fiscal year 2024.

Investment Management

The *equity* segment is invested in the Non-Retirement Equity Fund, a passively managed S&P 500 Index Fund, managed by

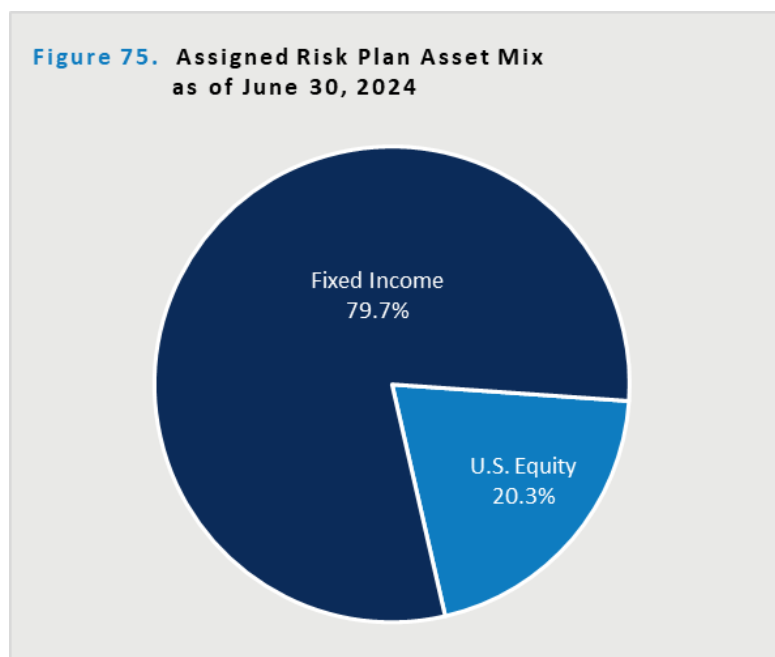
Mellon Investments Corporation. Information on this Fund is provided on page 149.

The *bond* segment is managed by RBC Global Asset Management using a risk-controlled active approach, with a focus primarily on security selection, and secondarily on sector allocation and rotation. More information on the Assigned Risk Plan fixed income portfolio is provided on page 152.

Investment Performance

The Assigned Risk Plan is measured against a composite index which is weighted to reflect the asset allocation of the Plan:

- The target for the equity component is the S&P 500 Index.
- The target for the fixed income component is the Bloomberg U.S. Intermediate Government Index.



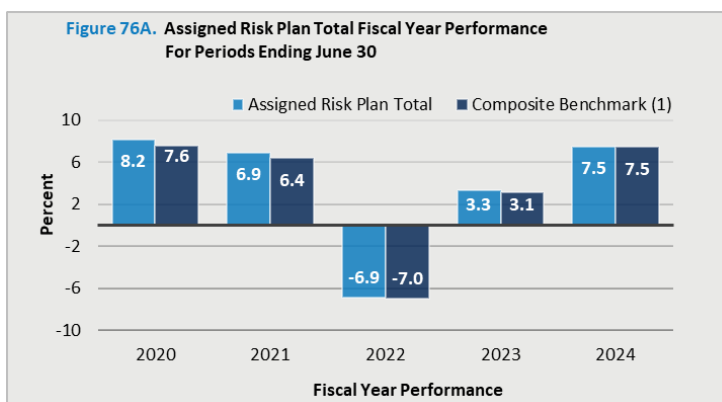
Non-Retirement Account Assigned Risk Plan

The **equity** segment returned +24.5% in fiscal year 2024, slightly underperforming its benchmark, the S&P 500 Index, by 0.1 percentage points.

The **bond** segment returned +3.4% in fiscal year 2024, matching its benchmark, the Bloomberg U.S. Intermediate Government Index.

Overall, the Assigned Risk Plan returned +7.5% in fiscal year 2024, matching its composite benchmark. The Plan matched or exceeded the benchmark for the three-, five-, 10-, and 20-year periods ending June 30, 2024.

Historical performance results are provided in Figures 76A and 76B.

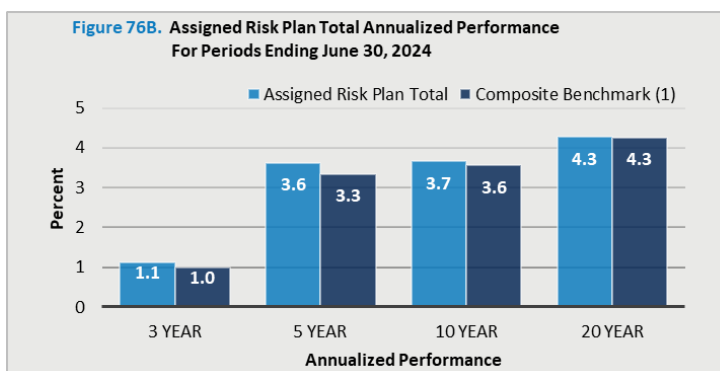


(1) Composite Benchmark represents the aggregate return of the respective sub-asset group benchmark returns weighted by the target allocation.

Assigned Risk Plan Total Fiscal Year Performance (%) For Periods Ending June 30					
Segment/Benchmark	2020	2021	2022	2023	2024
Equity Segment	7.5	40.8	-10.6	19.7	24.5
S&P 500	7.5	40.8	-10.6	19.6	24.6
Bond Segment	7.2	-0.8	-6.3	-0.9	3.4
Bond Segment Benchmark ¹	7.0	-1.1	-6.3	-1.0	3.4
Assigned Risk Plan Total	8.2	6.9	-6.9	3.3	7.5
Composite Benchmark ²	7.6	6.4	-7.0	3.1	7.5

¹Bond Segment benchmark since 7/1/11 is the Bloomberg US Int Govt. From 4/1/02 – 6/30/11 was: 10% ML 91 Day T-Bill, 25% ML 1-3Year Govt., 15% ML 3-5Year Treasury/Agency 25% ML 5-10Year Trsy/Agency, 25% ML Mortgage Master. From 7/1/01 – 3/31/02 was: 10% ML 91 Day T-Bill, 25% ML 1-3Year Govt/Credit, 15% ML 3-5Year Govt/Credit, 25% ML 5-10Year Govt/Credit, and 25% ML Mortgage Master.

²Composite benchmark represents the aggregate return of the respective sub-asset group benchmark returns weighted by the target allocation.



(1) Composite Benchmark represents the aggregate return of the respective sub-asset group benchmark returns weighted by the target allocation.

Assigned Risk Plan Total Annualized Performance (%) For Periods Ending June 30, 2024				
Segment/Benchmark	3 Year	5 Year	10 Year	20 Year
Equity Segment	10.0	15.0	12.4	10.1
S&P 500	10.0	15.0	12.9	10.3
Bond Segment	-1.3	0.4	1.2	2.5
Bond Segment Benchmark ¹	-1.4	0.3	1.1	2.6
Assigned Risk Plan Total	1.1	3.6	3.7	4.3
Composite Benchmark ²	1.0	3.3	3.6	4.3

¹Bond Segment benchmark since 7/1/11 is the Bloomberg US Int Govt. From 4/1/02 – 6/30/11 was: 10% ML 91 Day T-Bill, 25% ML 1-3Year Govt., 15% ML 3-5Year Treasury/Agency 25% ML 5-10Year Trsy/Agency, 25% ML Mortgage Master. From 7/1/01 – 3/31/02 was: 10% ML 91 Day T-Bill, 25% ML 1-3Year Govt/Credit, 15% ML 3-5Year Govt/Credit, 25% ML 5-10Year Govt/Credit, and 25% ML Mortgage Master.

²Composite benchmark represents the aggregate return of the respective sub-asset group benchmark returns weighted by the target allocation.

Non-Retirement Investment Program

Other Postemployment Benefits & Qualifying Governmental Entities

Other Postemployment Benefits (OPEB)

Overview

Under the provisions of [Minnesota Statutes, Section 471.6175](#), local units of government, including school districts, may choose the Public Employees Retirement Association (PERA) to administer their postemployment benefits.

If a local unit chooses PERA, assets of that unit's account are invested by the SBI.

Investment Options

Three investment options are available to local OPEB trusts: Equity, Bond, and Money Market Funds. Fund summaries are provided on pages 149-151.

Asset Allocation

The SBI does not determine the overall asset allocation policy for local OPEB trusts invested in these options.

Participating Entities

As of June 30, 2024, there were 22 OPEB investment accounts invested with the SBI with a total market value of approximately \$992.0 million.

City of Duluth OPEB

Overview

In accordance with [Minnesota Statutes, Section 353.95](#), the SBI reports the performance for assets invested by the City of Duluth, which first invested with the SBI in July 2007. As of June 30, 2024, the market value of the City of Duluth OPEB account was approximately \$113.7 million.

Asset Allocation

The City of Duluth is responsible for determining the asset allocation for this account. In June 2024, after reviewing the long-term asset/liability management approach for the OPEB plan, the City elected to implement a liability-driven investment strategy for the portfolio.

As of June 30, 2024, the portfolio was invested entirely in a laddered bond portfolio. Before transitioning to this strategy in June 2024, the portfolio was allocated between the Non-Retirement Equity Fund and the Non-Retirement Bond Fund.

Investment Performance

Figure 77 provides the historical annualized performance results as of June 30, 2024. The historical performance shown includes the effect of changes to the asset allocation.

Figure 77. City of Duluth OPEB Performance (%)
For Periods Ending June 30, 2024

	Annualized Performance			
	1 Year	3 Year	5 Year	10 Year
City of Duluth OPEB	12.4	4.9	10.1	9.3

Qualifying Governmental Entities

Overview

Under [Minnesota Statutes, Section 118A.09](#), counties and cities that meet the criteria provided in the statute may invest in the Non-Retirement Equity Fund. The statute also authorizes certain self-insurance pools to invest with the SBI.

As of June 30, 2024, the total market value of the Qualifying Governmental Entities investment account was approximately \$17.4 million.

Investment Option

The Non-Retirement Equity Fund is an investment option for Qualifying Governmental Entities. More information on the Non-Retirement Equity Fund is provided on page 149.

Figure 78 provides the return for the equity investment option as of June 30, 2024.

Figure 78. Qualifying Governmental Entities Investment Option Performance (%)
For Periods Ending June 30, 2024

Investment Option/Benchmark	Annualized Performance			
	1 Year	3 Year	5 Year	10 Year
Non-Retirement Equity Fund	24.5	10.0	15.0	12.9
S&P 500	24.6	10.0	15.0	12.9

Participating Entities

As of June 30, 2024, four Qualifying Governmental investment accounts were invested with the SBI.

Plan Administrator

PERA administers the accounts for Qualifying Governmental Entities. Each entity must maintain a Long-Term Equity Investment Account Agreement with PERA to invest through the SBI.

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State Cash Accounts

Investment Program Overview

State Cash Accounts

The SBI manages the cash balances of more than 400 state agency accounts with the objectives of preserving capital, meeting state agency liquidity needs, and providing competitive returns on invested cash. On June 30, 2024, the total market value of the cash accounts internally managed by the SBI was \$30.1 billion.

State Cash Account assets represent funds invested in the Invested Treasurer's Cash (ITC) Pool and in Other State Cash Accounts. Certain state agencies with varying investment objectives, investment restrictions, and time horizons are not invested in the ITC Pool and are invested in separate accounts.

Investment Objectives

The investment objectives for investing State Cash Accounts are to preserve capital, to meet the agencies' cash needs without the forced sale of securities at a loss, and to provide a level of current income consistent with the goal of preserving capital.

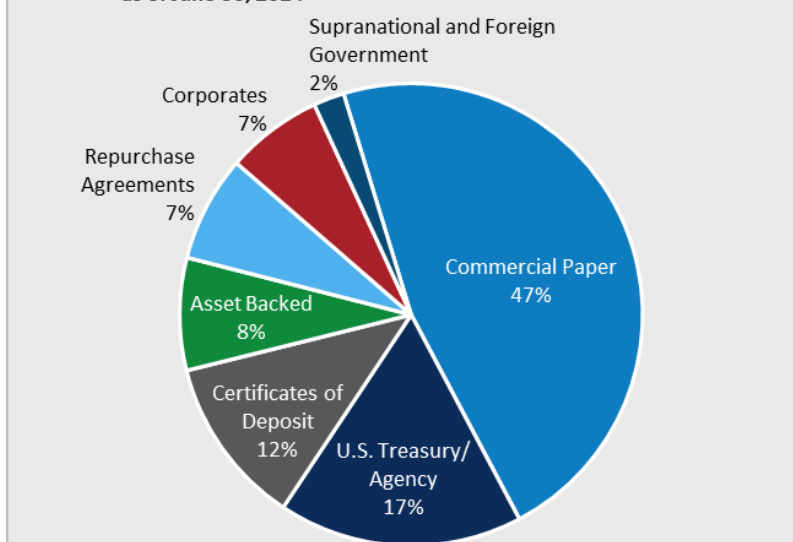
Investment Management

All State Cash Accounts are managed internally by SBI investment staff.

Invested Treasurer's Cash Pool

The majority of the State Cash Accounts are invested in a short-term pooled fund referred to as the Invested Treasurer's Cash (ITC) Pool. As of June 30, 2024, the assets invested in the ITC Pool totaled \$29.2 billion, representing 96.9% of total State Cash Account assets. The ITC Pool invests the cash balances of special or dedicated accounts

Figure 79. Invested Treasurer's Cash (ITC) Pool Sector Allocation as of June 30, 2024



necessary for the operation of certain state agencies, and the non-dedicated cash in the State's general account.

Asset Allocation

The ITC Pool portfolio is managed to generate current income while preserving capital by investing in high-quality, liquid, short-term investments. Investments include U.S. Treasury and Agency securities, repurchase agreements, commercial paper, short-term corporate bonds, and certificates of deposit.

The sector allocation of the ITC Pool as of June 30, 2024, is shown in Figure 79.

At the end of the fiscal year, the Pool had a current yield of 5.23% and a weighted average maturity of 120 days.

Investment Performance

The SBI measures the performance of the ITC Pool against its benchmark, the iMoneyNet All Taxable Money Fund Average, which reflects the investment objectives of the

account. Performance results are shown in Figures 80A and 80B on the following page. In fiscal year 2024, the ITC Pool returned +5.7%, outperforming its benchmark by 0.6 percentage points. Over the trailing five-, 10-, and 20-year periods ended June 30, 2024, the ITC Pool outperformed its benchmark, while it underperformed its benchmark over the trailing three-year period.

Other State Cash Accounts

Approximately \$932.5 million of assets are held in Other State Cash Accounts, representing dedicated separately managed accounts with varying investment objectives and restrictions. In these cases, the state agency either directs the SBI to make specific investments or provides the SBI with investment guidelines, and the SBI manages the investment strategy on the agency's behalf. Most of the assets in the Other State Cash Accounts are related

State Cash Accounts

Investment Program Overview

to State or state agency debt issuance, including debt service reserves and proceeds.

Excess Debt Reserve

The SBI manages excess debt reserve accounts separately from the ITC Pool in order to conform with requirements related to the issuance of general obligation bonds.

When the full faith and credit of the State has been pledged for the payment of the State’s bonds, the Minnesota Constitution and statutes require the State to have on hand by December 1 of each year an amount sufficient to pay

principal and interest on the State’s general obligation debt for the next nineteen months.

The Internal Revenue Code establishes rules surrounding debt issuance, debt service, and yield management. The SBI complies with these rules by separating the nineteen months of funds set aside for debt service into two accounts:

- A “bona fide debt service account” to comply with federal regulations; and
- An “excess reserve account” to comply with the Minnesota Constitution and statutes.

The primary investments for the reserve accounts are U.S. Treasuries and municipal bonds. As of the end of fiscal year 2024, the SBI had \$114.9 million invested in the Excess Debt Service Reserve accounts.

Minnesota Public Facilities Authority

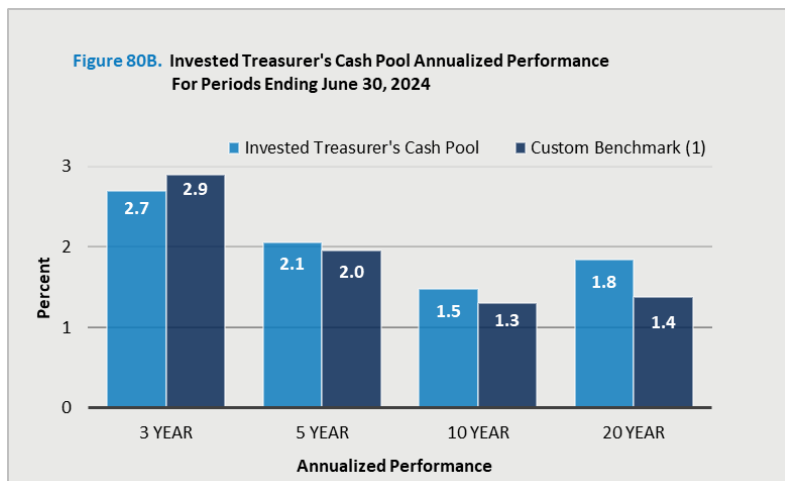
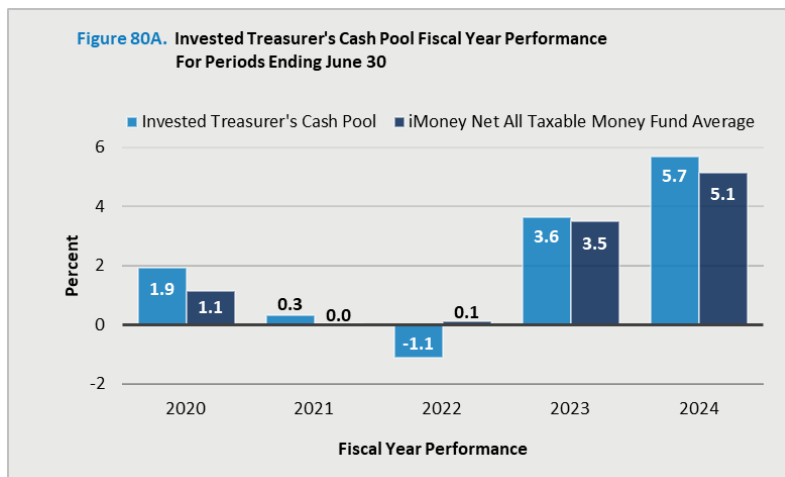
The SBI periodically invests assets on behalf of and at the direction of the Minnesota Public Facilities Authority.

As of June 30, 2024, the SBI did not invest any assets on behalf of the Public Facilities Authority.

Minnesota Housing Finance Agency

Minnesota Housing Finance Agency has the authority to invest in a separate investment account with the SBI.

The primary investments for the separate account are U.S. Treasuries and U.S. Agency securities. As of June 30, 2024, the SBI had \$817.7 million in assets invested on behalf of the Housing Finance Agency.



(1) Custom Benchmark represents the returns of the iMoneyNet All Taxable Money Fund Average since 1/1/2004 and the ICE BofA 3 Month T-Bill Index prior to 12/31/2003.

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Financial Reports

Notes to the Financial Schedules – June 30, 2024

Financial Report Background:

The State Board of Investment (SBI) provides investment management vehicles to numerous retirement plans and non-retirement funds. The SBI's goal is to provide investment vehicles that will allow each plan to maximize returns given the appropriate level of risk. For each investment program, the assets are further broken down and reported by the entity responsible for the financial accounting and presentation of the funds. The information provided by the SBI is audited in conjunction with the audit of the reporting entities.

Combined Funds: The Combined Funds consist of assets administered by the three Statewide Retirement Systems: Teachers Retirement Association (TRA), Public Employees Retirement Association (PERA), and Minnesota State Retirement System (MSRS). A listing of Combined Funds assets by Plan is provided in a schedule on page 169. Annual Comprehensive Financial Reports are prepared by the respective retirement systems and can be found on their websites at:

TRA - <https://minnesotatra.org>

MSRS - <https://www.msrs.state.mn.us>

PERA - <https://mnpera.org>

Fire Relief Plans and Other Public Retirement Plans: Volunteer Fire Relief Associations, Statewide Volunteer Firefighter (SVF) Retirement Plan, and St. Paul Teachers' Retirement Fund use the Supplemental Investment Fund (SIF) platform. The SVF Retirement Plan, administered by PERA, is included in PERA's Annual Comprehensive Financial Report. Plan participation in the SIF platform is provided in a schedule on pages 170-177.

The Supplemental Investment Fund (SIF) platform provides all or some of the investment options for various plans. Not all investment options are available to all plans due to statutory requirements and regulatory rules. A financial schedule for the SIF platform is provided beginning on page 168 as required by statute.

Participant Directed Investment Program (PDIP): Participants in this investment program are responsible for their own investment choices using investment vehicles from a mutual fund investment platform and eligible options from the SIF investment platform. PDIP participation in the SIF platform is included in the SIF schedule on page 177.

Non-Retirement Funds: The Non-Retirement Funds provide investment vehicles for Trusts, OPEBs, and Qualifying Governmental Entities. A listing of the Non-Retirement Accounts is provided in the participation schedule on page 178. The Annual Comprehensive Financial Reports for the Trusts are prepared by Minnesota Management and Budget and are available on their website at <https://mn.gov/mmb>. The Annual Comprehensive Financial Reports for the OPEBs are prepared by PERA and are available on their website at <https://mnpera.org/financial>.

State Cash Accounts: The State Cash Account assets are invested by SBI staff in either the Invested Treasurer's Cash (ITC) Account or in Other State Cash Accounts. Other State Cash Accounts include Excess Debt Service and Minnesota Housing Finance Agency. Detailed financial statements, supporting schedules, and a further breakdown of these assets can be found in the State of Minnesota's Annual Comprehensive Financial Reports available from Minnesota Management and Budget at <https://mn.gov/mmb/accounting/reports/annual-comprehensive-financial-report.jsp>.

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES:

Financial Reporting: As required by state statute, the SBI has prepared schedules of participation in the SIF platform, a schedule of participation for all pooled investments, a schedule of external investment manager fees, and an investment commission report.

Authorized Investments: [Minnesota Statutes, Section 11A.24](#) authorizes investments to obligations and stocks of the U.S. and Canadian governments, their agencies and their registered corporations; short-term obligations of specified high quality; international securities; participation in equity, debt, real estate or resource investments through a variety of legal structures; participation in co-investment or separate account vehicles, liquid alternatives, or bank loans; and participation in registered mutual funds.

Security Valuation: All securities are valued at fair value except for short-term securities, which are valued at amortized cost. For fixed income securities, SBI uses an approved hierarchy of pricing sources. For equity securities, SBI uses valuation services provided by quoted prices in active markets throughout an exchange. The basis for determining the fair value of investments that are not based on market quotations may include audited financial statements, analysis of future cash flows, and independent appraisals.

Recognition of Security Transactions: Security transactions are accounted for as of the date the securities are purchased or sold.

Income Recognition: Pool dividend income is recorded on the ex-dividend date. Pool interest and dividend income are accrued monthly. Short-term interest is accrued monthly and is presented as "Accrued Short-Term Gain."

Amortization of Fixed Income Securities: Premiums and discounts on fixed income purchases are amortized over the remaining life of the security using the "Effective Interest Method."

Financial Reports

Supplemental Investment Accounts – Fund Schedules

Retirement Plans – Supplemental Investment Accounts Schedule of Net Positions (Amounts in 000's) – As of June 30, 2024

	Stable Value Fund	Money Market Fund	Bond Fund	Balanced Fund	U.S. Equity Index Fund	U.S. Equity Actively Managed Fund	Broad International Stock Fund	Volunteer Fire Fighter Account	Total Supplemental Investment Fund
Assets									
Short-Term Investments									
Stable Value Fixed Interest	\$ 1,536,856								\$ 1,536,856
Money Fund		825,551		1,367				8,674	835,592
Fixed Income Investments									
Bond Pool			107,226	43,182				82,374	232,782
Equity Investments									
Domestic Stock Pool				76,343	403,767	100,798		65,346	646,254
International Stock Pool							150,375	27,505	177,880
Net Supplemental Position Assets Held in Trust	\$ 1,536,856	\$ 825,551	\$ 107,226	\$ 120,892	\$ 403,767	\$ 100,798	\$ 150,375	\$ 183,899	\$ 3,429,364

Unaudited

Retirement Plans – Supplemental Investment Accounts Schedule of Changes in Net Assets (Amounts in 000's) – As of June 30, 2024

	Stable Value Fund	Money Market Fund	Bond Fund	Balanced Fund	U.S. Equity Index Fund	U.S. Equity Actively Managed Fund	Broad International Equity Fund	Volunteer Firefighter Account	Total Supplemental Investment Fund
Investment Income									
Interest, Dividends and Other	\$ 3,312	\$ 44,728	\$ 3,246	\$ 358	\$ (1,611)	\$ (1,582)	\$ (1,787)	\$ 148	\$ 46,812
Net Increase in Fair Value of Investments	49,698	-	3,896	16,689	87,718	20,468	17,318	19,314	215,101
Total Investment Income (Loss)	\$ 53,010	\$ 44,728	\$ 7,142	\$ 17,047	\$ 86,107	\$ 18,886	\$ 15,531	\$ 19,462	\$ 261,913
Expenses									
Administrative Expenses	\$ (165)	\$ (82)	\$ (11)	\$ (12)	\$ (41)	\$ (10)	\$ (15)	\$ (184)	\$ (520)
Investment Expenses	(3,147)	\$0	(106)	(44)	(18)	(166)	(357)	(147)	(3,985)
Total Expenses	\$ (3,312)	\$ (82)	\$ (117)	\$ (56)	\$ (59)	\$ (176)	\$ (372)	\$ (331)	\$ (4,505)
Net Income - Supplemental Investments	\$ 49,698	\$ 44,646	\$ 7,025	\$ 16,991	\$ 86,048	\$ 18,710	\$ 15,159	\$ 19,131	\$ 257,408
Participant Transactions									
Additions	\$ 13,034	\$ 131,501	\$ 4,790	\$ 10,468	\$ 5,040	\$ 1,779	\$ 2,087	\$ 28,425	\$ 197,124
Withdrawals	(224,950)	(49,978)	(5,272)	(20,113)	(102,293)	(3,406)	(2,246)	(15,378)	(423,636)
Net Participant Transactions	\$ (211,916)	\$ 81,523	\$ (482)	\$ (9,645)	\$ (97,253)	\$ (1,627)	\$ (159)	\$ 13,047	\$ (226,512)
Total Change in Assets	\$ (162,218)	\$ 126,169	\$ 6,543	\$ 7,346	\$ (11,205)	\$ 17,083	\$ 15,000	\$ 32,178	\$ 30,896
Net Supplemental Investment Assets Held in Trust									
Beginning of Fiscal Year	1,699,074	699,382	100,683	113,546	414,972	83,715	135,375	151,721	3,398,468
End of Fiscal Year	\$ 1,536,856	\$ 825,551	\$ 107,226	\$ 120,892	\$ 403,767	\$ 100,798	\$ 150,375	\$ 183,899	\$ 3,429,364

Unaudited

Financial Reports

Retirement Plans Participation

Retirement Plans

Total Plan Participation (Amounts in 000's) – As of June 30, 2024

	Domestic Equity	International Equity	Global Equity	Fixed Income	Cash	Private Markets Invested	Private Markets Uninvested	Stable Value Fund	Total
Retirement Plans Participation									
Combined Funds	\$31,468,724,064	\$ 14,837,039,242	\$ 1,034,248,368	\$ 21,937,878,878	\$ 1,346,024,356	\$22,833,205,280	\$ 221,533,615		\$ 93,678,653,801
Fire Relief + Other Public Retirement Plans	\$ 576,909,176	\$ 173,700,797		\$ 211,124,656	\$ 20,500,473				\$ 982,235,102
Participant Directed Investment Program	\$ 69,344,231	\$ 4,179,618		\$ 21,657,882	\$ 815,090,590			1,536,856,425	\$ 2,447,128,746
Total Plan Participation	\$32,114,977,471	\$ 15,014,919,656	\$ 1,034,248,368	\$ 22,170,661,416	\$ 2,181,615,419	\$22,833,205,280	\$ 221,533,615	\$ 1,536,856,425	\$ 97,108,017,650

Retirement Plans

Combined Funds Plan Participation (Amounts in 000's) – As of June 30, 2024

	Domestic Equity	International Equity	Global Equity	Core/Core Plus Bonds	Return Seeking Fixed Income	Treasury Protection	Short Duration Laddered Bonds	Cash	Private Markets Invested	Private Markets Uninvested	Totals
Combined Retirement Funds											
MSRS General Employee Retirement Fund	\$ 6,086,564,584	\$ 2,869,725,420	\$ 201,258,441	\$ 1,026,599,781	\$ 867,842,994	\$ 1,714,036,843	\$ 639,343,750	\$ 232,517,017	\$ 4,416,314,533	\$ 42,818,744	\$ 18,097,022,107
Correctional Employees Retirement Fund	604,587,213	285,053,964	17,965,356	101,933,398	77,842,989	170,234,583	63,506,934	25,019,611	438,677,221	4,192,511	\$ 1,789,013,780
Highway Patrolmen's Retirement Fund	354,071,085	166,939,298	11,013,926	59,705,865	47,567,010	99,701,868	37,192,267	14,769,625	256,907,725	2,470,122	\$ 1,050,338,791
Judges Retirement Fund	98,756,257	46,562,125	3,207,472	16,655,712	13,842,805	27,810,088	10,373,536	4,158,892	71,655,965	694,819	\$ 293,717,671
PERA General Employee Retirement Fund	409,624,648	193,131,990	11,687,878	69,055,391	50,810,616	115,333,311	43,027,714	15,952,487	297,216,451	2,829,981	\$ 1,208,670,468
Public Employee Corrections	10,133,963,317	4,778,014,221	329,520,923	1,709,173,023	1,422,577,450	2,853,762,403	1,064,489,832	407,508,394	7,353,041,653	71,210,682	\$ 30,123,261,897
Public Employee Police & Fire Fund	4,053,678,167	1,911,249,461	131,286,924	683,679,073	566,774,324	1,141,524,871	425,805,685	161,801,197	2,941,284,741	28,463,736	\$ 12,045,548,181
Teacher's Retirement Fund	9,727,478,792	4,586,362,763	328,307,446	1,641,096,558	1,415,217,595	2,739,568,647	1,021,791,962	484,297,133	7,058,106,991	68,853,020	\$ 29,071,080,907
Totals	\$31,468,724,064	\$ 14,837,039,242	\$ 1,034,248,368	\$ 5,307,898,802	\$ 4,462,475,783	\$ 8,861,972,613	\$ 3,305,531,680	\$ 1,346,024,356	\$ 22,833,205,280	\$ 221,533,615	\$ 93,678,653,801

Financial Reports

Retirement Plans Participation

Retirement Plans – Supplemental Investment Fund Investments Fire Relief Plans + Other Public Retirement Plans Participation – As of June 30, 2024

	Domestic Equity	International Equity	Fixed Income	Cash	Total
Fire Relief Plans					
Ada	\$ 221,201	\$ 71,995	\$ 76,674	\$ 117,915	\$ 487,784
Almelund	621,456		130,433	314,351	1,066,241
Amboy	290,974		17,625		308,599
Amboy - Special	59,283				59,283
Argyle	312,311		52,404	1,658	366,374
Arrowhead	160,627		36,039	444	197,110
Audubon	478,463		344,358	6,822	829,643
Austin	1,745,880		151,834	4,805	1,902,520
Avon	205,913				205,913
Backus	58,422				58,422
Bagley	255,646		102,165	2,218	360,029
Balsam	827,824		175,148	25,583	1,028,555
Battle Lake	622,818		352,286	11,149	986,253
Bayport	2,264,926		1,281,113	40,544	3,586,583
Beardsley	345,231	59,070	57,622	84	462,006
Beaver Creek	113,227		38,478		151,705
Belle Plaine	574,661		35,197	403,263	1,013,121
Bemidji	2,300,865	513,876	1,312,937	412,481	4,540,159
Bertha	410,134		76,976	2,436	489,547
Bigfork	608,981	29,890	14,189	449	653,509
Bird Island	271,548		46,646	1,476	319,671
Blackduck	39,708	51,062			90,770
Blooming Prairie	339,371		161,007	46,004	546,382
Bloomington	82,055,377	22,949,518	85,133,733		190,138,628
Boyd	53,322		8,851	280	62,453
Brooten	13,092			535,146	548,238
Buffalo Fire	399,393		24,507	18,382	442,282
Buffalo Lake	770,240		122,052	3,863	896,155
Carlton	422,033	38,750	71,891	878	533,552
Ceylon	508,623		64,327	20,234	593,184
Cherry	587,167		90,251	2,856	680,274
Chisago City	993,136	118,536	274,162	31,356	1,417,190
Chokio	230,930	52,849	130,621	4,134	418,535
Clarissa	173,686		43,450		217,136
Clarkfield	303,827		167,938	3,755	475,520
Clear Lake	648,132		69,153	537,666	1,254,951
Cloquet (Perch Lake)	1,137,061	52,166	385,875	3,754	1,578,856
Columbia Heights	3,954,554		667,035		4,621,588
Coon Rapids	2,245,868		2,477,269	40,203	4,763,340
Courtland	35,171		19,894	4,189	59,254
Cyrus	182,285	22,933	44,618	25,908	275,743
Dawson	484,069		189,940	6,011	680,020
Dayton Fire				428,624	428,624
Deer Creek	109,506	12,377	28,547	324,628	475,058
Dover	430,895	65,110	108,793	29,589	634,388
East Grand Forks	1,125,326		636,519	20,144	1,781,990
Edgerton	1,017,526		249,978	7,911	1,275,416
Elbow Lake	638,490	52,667	138,877	4,696	834,730
Excelsior	4,088,540	2,131,957	5,347	2,495,412	8,721,256
Eyota	210,207		200,839	169,158	580,203
Fairmont	1,344,050		760,237	24,060	2,128,347
Fergus Falls	2,187,981	141,269	1,180,253	12,654	3,522,156
Forest Lake	342,333		145,030	4,590	491,954
Franklin	713,856				713,856
Ghent	88,156	10,016	8,974		107,146

Financial Reports

Retirement Plans Participation

Retirement Plans – Supplemental Investment Fund Investments Fire Relief Plans + Other Public Retirement Plans Participation – As of June 30, 2024

	Domestic Equity	International Equity	Fixed Income	Cash	Total
Fire Relief Plans					
Glencoe	\$ 742,170				\$ 742,170
Glenville	189,134	68,264	78,550	816	336,764
Glenwood	1,118,362		242,912	7,667	1,368,940
Golden Valley	4,747,065	663,613	968,903	22,415	6,401,996
Gonvick	277,045		47,219	1,494	325,758
Good Thunder	634,500		99,801	3,158	737,459
Goodland	104,665		9,830	311	114,806
Grand Meadow	691,937		109,226	2,675	803,838
Grey Eagle	262,645	62,944	148,560	4,702	478,851
Hackensack	365,280	216,852	310,928	6,539	899,599
Hanover Regular	632,589		627,757	11,324	1,271,670
Hanska	291,375		109,963	12,585	413,924
Harmony	247,822	45,866	47,586	67,716	408,990
Hawley	316,276			97	316,373
Hayward	221,567	58,912	29,419	465,014	774,912
Hector	894,826		506,141	16,018	1,416,985
Herman	282,008	39,127	39,543		360,678
Hokah	169,290		32,024	9	201,323
Holdingsford	120,853		12,322	390	133,565
Holland	258,913	132,856	78,957	886	471,612
Kandiyohi	737,187		147,256	2,533	886,976
Kasson	355,207	64,424	130,682	141,677	691,990
Kelsey	97,296	42,648	30,096		170,040
Kerkhoven	342,225		78,375	1,108	421,708
Kilkenny	684,461		89,276	32,864	806,601
La Crescent	1,353,118		209,820	3,975	1,566,913
La Salle	147,928		13,313	421	161,662
Lafayette	577,484	77,204	126,661	3,682	785,031
Lake City	966,720		528,601	16,362	1,511,682
Lakeville	8,279,303	441,940	885,227		9,606,470
Lewiston	598,253		99,594	3,152	700,998
Littlefork	712,230		156,731	4,960	873,921
Long Lake	1,797,717	30,716	1,011,557	61,320	2,901,310
Lonsdale	762,488	174,595	83,862	17,162	1,038,106
Lowry	296,637				296,637
Lyle	292,738	4,517	44,147	1,290	342,692
Mable	115,979	28,026	34,482	30,617	209,104
Madelia	264,468		202,517	14,706	481,692
Madison	584,316		66,563	33,333	684,211
Madison Lake	48,229	10,834	10,003	317	69,384
Maple Hill	335,289		246,566	6,002	587,856
Mapleton	139,522		31,737	440	171,699
Mapleview	328,038	50,103	111,750	1,834	491,725
Marietta	313,112		158,606	1,812	473,530
Marine St. Croix	268,096		151,644	249,997	669,737
Maynard	134,619		76,145	2,410	213,173
McDavitt	3,835	63	319	58,426	62,644
McGrath	63,799		28,905	493	93,197
McIntosh	307,128		27,823	12,260	347,211
Medford	922,394	63,234	190,832	724	1,177,183
Medicine Lake	625,431	183,250	111,025		919,707
Menahga	259,329		338,469	4,642	602,440
Mendota Heights	2,989,431	367,640	1,111,596	465,309	4,933,976
Milan	371,069		72,661	1,461	445,191

Financial Reports

Retirement Plans Participation

Retirement Plans – Supplemental Investment Fund Investments Fire Relief Plans + Other Public Retirement Plans Participation – As of June 30, 2024

	Domestic Equity	International Equity	Fixed Income	Cash	Total
Fire Relief Plans					
Minneota	\$ 220,570	\$ 21,280	\$ 71,011	\$ 1,288	\$ 314,148
Minnetonka	6,269,156	1,333,008	4,240,548	112,224	11,954,936
Mission Twp	503,417		291,521	9,012	803,950
Morristown	1,461,770		307,626	17,272	1,786,668
Murdock	108,328	13,330	14,985	474	137,117
Nassau	450,610	50,017	91,345	703	592,675
Nerstrand	27,437	6,063	14,296	138,933	186,729
New Brighton	4,286,959		1,788,318		6,075,277
New Ulm	1,127,909				1,127,909
New York Mills	169,073		95,633	3,027	267,733
Nicollet	867,906	254,336	185,329	14,411	1,321,983
Nodine	344,814	32,330	60,319	75,703	513,165
North Branch	413,518	43,353	38,347	1,214	496,431
Northfield	4,688,099	929,342	802,103	923,726	7,343,270
Northrop	272,428		50,870	1,291	324,590
Onamia	134,500		121,317	234,613	490,430
Ormsby	38,827	14,967	6,548	207	60,549
Oronoco	456,502		112,618	2,104	571,224
Pequot Lakes	1,565,157		410,393	8,292	1,983,842
Pine Island	1,260,313		393,236	11,097	1,664,645
Pipestone	603,356		94,301	2,984	700,641
Plymouth	3,663,937	1,773,792	2,892,237	363,378	8,693,343
Randolph	1,364,936	93,769	255,805	8,096	1,722,605
Red Lake Falls Regular	152,390		73,783	2,335	228,508
Red Lake Falls Special		12,844			12,844
Redwood Falls			59,049		59,049
Renville	499,861		129,559	1,859	631,279
Robbinsdale	2,200,972	157,313	270,129	767,394	3,395,808
Rollingstone	66,602		13,606	65,955	146,163
Rose Creek	114,205	7,222	11,619	368	133,415
Roseau	5,628				5,628
Rosemount	4,405,612		1,004,220	620,924	6,030,756
Roseville	12,645,115		3,047,524		15,692,639
Ruthton	297,835		30,840	32,897	361,572
Saint Clair	1,321,653		177,585	3,825	1,503,062
Saint Hilaire	118,857		28,016	489	147,362
Saint Peter	1,066,181	183,673	30,982	966	1,281,801
Savage	2,546,009		1,440,102	45,576	4,031,686
Sherburn	929,100		3		929,103
Silver Bay	833,072	12,728	106,748	3,378	955,926
Stewart	349,923		90,148	2,853	442,924
Sturgeon Lake	201,216		9,974		211,190
Tofte	419,433		73,078	2,313	494,823
Truman	504,954		72,683	834	578,471
Two Harbors	754,869	123,282	274,515	34,839	1,187,506
Tyler	381,353		215,705	6,827	603,885
Verndale	97,103				97,103
Viking Fire	148,414	15,666	26,585	3,694	194,360
Warroad Area	685,295		421,429	12,267	1,118,992
Watkins Fire	703,915	105,978	73,685	17,986	901,563
Williams	358,102		100,988	3,196	462,286
Willow River	340,105		9,044		349,149

Financial Reports

Retirement Plans Participation

Retirement Plans – Supplemental Investment Fund Investments Fire Relief Plans + Other Public Retirement Plans Participation – As of June 30, 2024

	Domestic Equity	International Equity	Fixed Income	Cash	Total
Fire Relief Plans					
Woodstock	\$ 361,411		\$ 38,668	\$ 1,173	\$ 401,253
Wykoff	136,149		77,010	2,437	215,596
Wyoming	624,930		416,082	8,496	1,049,508
Zumbro Falls	133,440	11,905	69,663	302,744	517,751
Total Fire Relief Plans	\$ 222,970,925	\$ 34,397,869	\$ 128,750,305	\$ 11,826,541	\$ 397,945,640

Public Retirement Plan					
St. Paul Teachers Retirement Fund Association	\$ 288,592,463	\$ 111,797,647			\$ 400,390,110

Statewide Volunteer Firefighter Plan					
Aitkin Fire	\$ 467,374	\$ 196,726	\$ 589,167	\$ 62,039	\$ 1,315,306
Alaska	81,462	34,289	102,690	10,813	229,254
Albert Lea	391,143	164,639	493,071	51,920	1,100,774
Albertville	361,241	152,053	455,378	47,951	1,016,623
Alborn	85,017	35,785	107,171	11,285	239,258
Alden	116,468	49,024	146,819	15,460	327,770
Ashby	269,519	113,445	339,753	35,776	758,493
Aurora	141,225	59,444	178,027	18,746	397,442
Balaton	108,349	45,606	136,583	14,382	304,920
Barnum	170,420	71,733	214,830	22,621	479,604
Barrett	110,842	46,656	139,727	14,713	311,938
Bearville	9,109	3,834	11,483	1,209	25,636
Belview	125,680	52,901	158,431	16,683	353,694
Benson	224,121	94,337	282,525	29,750	630,732
Biwabik Fire	133,892	56,358	168,783	17,773	376,806
Biwabik Township	147,530	62,098	185,975	19,583	415,186
Blomkest	165,401	69,620	208,503	21,955	465,480
Braham	211,170	88,885	266,199	28,030	594,284
Brandon	193,770	81,561	244,265	25,721	545,317
Breckenridge	211,297	88,939	266,360	28,047	594,644
Breitung	216,463	91,113	272,872	28,733	609,182
Bricelyn	174,071	73,270	219,432	23,106	489,878
Brimson	80,974	34,083	102,075	10,748	227,880
Brook Park	154,405	64,992	194,641	20,496	434,533
Browerville	182,538	76,834	230,106	24,230	513,708
Brownsville	150,529	63,361	189,756	19,981	423,627
Buyck	67,805	28,540	85,474	9,000	190,820
Cambridge Fire	557,711	234,751	703,046	74,030	1,569,538
Canby	303,469	127,736	382,551	40,282	854,038
Canosia	234,452	98,686	295,549	31,121	659,808
Canton	66,660	28,058	84,031	8,848	187,598
Carsonville	179,273	75,459	225,990	23,797	504,519
Carver	496,954	209,177	626,456	65,965	1,398,552
Center City	220,395	92,769	277,828	29,255	620,247
Central Lakes	56,426	23,751	71,130	7,490	158,797
Chatfield	241,205	101,528	304,061	32,017	678,812
Clarks Grove	123,931	52,165	156,226	16,450	348,772
Clifton	306,514	129,017	386,388	40,686	862,606
Cologne	347,805	146,398	438,441	46,167	978,811
Colvill	74,646	31,420	94,099	9,909	210,074
Colvin	75,291	31,692	94,912	9,994	211,889
Cosmos	167,186	70,372	210,754	22,192	470,504
Cotton	165,203	69,537	208,254	21,929	464,923

Financial Reports

Retirement Plans Participation

Retirement Plans – Supplemental Investment Fund Investments Fire Relief Plans + Other Public Retirement Plans Participation – As of June 30, 2024

	Domestic Equity	International Equity	Fixed Income	Cash	Total
Statewide Volunteer Firefighter Plan					
Cottonwood	\$ 282,993	\$ 119,117	\$ 356,739	\$ 37,564	\$ 796,413
Crane Lake	95,740	40,299	120,689	12,708	269,435
Crookston	402,560	169,445	507,463	53,435	1,132,903
Culver	48,976	20,615	61,739	6,501	137,832
Dakota	103,443	43,541	130,400	13,731	291,115
Dalbo Fire Department	195,894	82,456	246,943	26,003	551,296
De Graff	45,502	19,153	57,359	6,040	128,053
Delavan	117,750	49,563	148,435	15,630	331,378
Dent	175,960	74,065	221,814	23,357	495,197
Dodge Center	354,358	149,156	446,700	47,037	997,251
Dunnell Lake	59,068	24,863	74,461	7,841	166,233
Eagle's Nest	36,558	15,388	46,085	4,853	102,884
East Bethel	815,815	343,392	1,028,409	108,290	2,295,906
Echo Fire	120,987	50,926	152,515	16,060	340,487
Elbow Tulaby	61,073	25,707	76,989	8,107	171,876
Elgin	222,379	93,604	280,329	29,518	625,830
Ellsburg	86,320	36,334	108,814	11,458	242,927
Ellsworth	130,186	54,798	164,111	17,281	366,375
Elmore	150,475	63,338	189,688	19,974	423,475
Ely	299,443	126,041	377,475	39,748	842,707
Embarrass	138,977	58,498	175,193	18,448	391,116
Emmons	215,517	90,715	271,679	28,607	606,518
Evansville	134,958	56,807	170,127	17,914	379,807
Fairfax	258,241	108,699	325,536	34,279	726,755
Fayal	146,011	61,459	184,060	19,381	410,910
Federal Dam	83,978	35,348	105,862	11,147	236,336
Finland	89,484	37,666	112,803	11,878	251,831
Finlayson	127,517	53,674	160,747	16,926	358,864
Forada	274,239	115,432	345,703	36,402	771,776
Foxhome	23,038	9,697	29,041	3,058	64,834
Fredenberg	146,774	61,780	185,022	19,483	413,059
French	105,369	44,352	132,827	13,987	296,534
Frost	143,653	60,466	181,088	19,068	404,276
Garfield	313,082	131,782	394,669	41,558	881,091
Garvin	75,901	31,948	95,680	10,075	213,605
Gaylord	183,299	77,154	231,065	24,331	515,848
Geneva	122,475	51,552	154,391	16,257	344,676
Gilbert	126,318	53,170	159,235	16,767	355,490
Gnesen	143,570	60,431	180,983	19,057	404,041
Goodview Fire	238,627	100,443	300,811	31,675	671,556
Grand Lake	246,021	103,555	310,132	32,657	692,364
Grand Marais	202,788	85,357	255,633	26,918	570,695
Granite Falls	243,573	102,524	307,046	32,332	685,475
Greenwood	245,591	103,374	309,590	32,600	691,155
Hallock	71,002	29,886	89,504	9,425	199,817
Hamburg	228,095	96,010	287,535	30,277	641,916
Hanley Falls	91,228	38,400	115,001	12,109	256,738
Hardwick	112,991	47,560	142,435	14,998	317,984
Harris	60,935	25,649	76,814	8,088	171,486
Hastings	2,056,530	865,633	2,592,445	272,982	5,787,589
Hayfield	301,706	126,994	380,328	40,048	849,076
Hendricks	109,912	46,264	138,554	14,590	309,320
Henning	212,177	89,309	267,468	28,164	597,119
Hewitt	100,390	42,256	126,551	13,326	282,524

Financial Reports

Retirement Plans Participation

Retirement Plans – Supplemental Investment Fund Investments Fire Relief Plans + Other Public Retirement Plans Participation – As of June 30, 2024

	Domestic Equity	International Equity	Fixed Income	Cash	Total
Statewide Volunteer Firefighter Plan					
Hill City	\$ 111,622	\$ 46,984	\$ 140,710	\$ 14,817	\$ 314,132
Hills	145,508	61,247	183,427	19,315	409,497
Hinckley	309,456	130,256	390,097	41,077	870,886
Hitterdal	150,494	63,346	189,711	19,976	423,527
Hoffman	89,535	37,687	112,867	11,885	251,973
Hollandale	74,379	31,307	93,761	9,873	209,320
Houston	256,921	108,143	323,873	34,103	723,040
Hovland Fire Department	94,389	39,730	118,986	12,529	265,634
Hoyt Lakes	149,247	62,821	188,139	19,811	420,018
Ideal	759,444	319,664	957,348	100,808	2,137,264
Industrial Township	191,781	80,724	241,757	25,457	539,718
International Falls	449,178	189,068	566,230	59,623	1,264,100
Isanti	1,302,761	548,357	1,642,250	172,927	3,666,295
Jacobson	152,836	64,332	192,664	20,287	430,118
Kelliher	89,188	37,541	112,429	11,839	250,996
Kerrick	33,620	14,151	42,381	4,463	94,614
Kettle River	88,999	37,461	112,191	11,814	250,464
Kiester	112,123	47,195	141,341	14,883	315,542
Lake Bronson	123,152	51,837	155,244	16,347	346,581
Lake Elmo	532,463	224,124	671,219	70,679	1,498,484
Lake Kabetogama	137,484	57,870	173,311	18,249	386,914
Lake Lillian	75,670	31,851	95,389	10,044	212,955
Lakeland	231,505	97,445	291,833	30,730	651,513
Lakewood	103,986	43,770	131,083	13,803	292,642
Lancaster	113,708	47,862	143,339	15,093	320,003
Le Sueur	446,448	187,918	562,788	59,261	1,256,415
Leaf Valley	165,411	69,625	208,515	21,956	465,507
Leroy	122,415	51,527	154,315	16,249	344,505
Lester Prairie	242,244	101,965	305,371	32,155	681,736
Lexington	250,166	105,300	315,357	33,207	704,029
Lino Lakes Fire	484,694	204,017	611,001	64,338	1,364,050
Linwood	289,273	121,760	364,655	38,398	814,086
Lutsen	126,559	53,271	159,540	16,799	356,170
Lynd	63,933	26,911	80,593	8,486	179,923
Mahtomedi	971,593	408,962	1,224,782	128,968	2,734,304
Mahtowa	142,965	60,177	180,220	18,977	402,339
Makinen	38,172	16,067	48,119	5,067	107,426
Manchester	130,165	54,789	164,085	17,278	366,316
Mantorville	251,528	105,873	317,075	33,388	707,864
Mayer	283,961	119,524	357,959	37,693	799,136
McGregor	457,635	192,627	576,890	60,746	1,287,898
Meadowlands	49,332	20,765	62,187	6,548	138,832
Melrose	300,613	126,534	378,950	39,903	845,999
Middle River	122,153	51,417	153,985	16,214	343,769
Milaca	325,957	137,201	410,898	43,267	917,324
Milroy	109,871	46,247	138,503	14,584	309,205
Miltona	188,744	79,446	237,929	25,054	531,173
Minnesota City	21,830	9,189	27,519	2,898	61,436
Montrose	536,281	225,731	676,032	71,185	1,509,229
Moose Lake	300,655	126,551	379,003	39,909	846,117
Morse-Fall Lake	367,040	154,494	462,688	48,721	1,032,942
Mountain Iron	229,778	96,718	289,656	30,501	646,653
Myrtle	219,119	92,231	276,220	29,086	616,656
Nevis	210,872	88,760	265,824	27,991	593,448

Financial Reports

Retirement Plans Participation

Retirement Plans – Supplemental Investment Fund Investments Fire Relief Plans + Other Public Retirement Plans Participation – As of June 30, 2024

	Domestic Equity	International Equity	Fixed Income	Cash	Total
Statewide Volunteer Firefighter Plan					
New Germany	\$ 257,492	\$ 108,383	\$ 324,592	\$ 34,179	\$ 724,647
New Munich	102,900	43,312	129,714	13,659	289,585
Newfolden	108,428	45,640	136,684	14,393	305,145
Newport	463,291	195,008	584,020	61,497	1,303,816
Normanna	54,599	22,982	68,827	7,247	153,655
North Star	64,068	26,968	80,764	8,504	180,304
Northeast Sherburne	383,599	161,464	483,562	50,919	1,079,544
Northhome	69,872	29,411	88,081	9,275	196,638
Northland Fire	52,245	21,991	65,860	6,935	147,031
Norwood-Young America	248,705	104,685	313,516	33,013	699,918
Nowthen	39,382	16,577	49,644	5,228	110,830
Oak Grove	708,215	298,101	892,770	94,008	1,993,095
Ogema	29,803	12,545	37,569	3,956	83,873
Ogilvie	177,711	74,802	224,021	23,589	500,123
Osakis	434,352	182,827	547,541	57,655	1,222,375
Ottertail	292,607	123,164	368,858	38,840	823,469
Palisade	144,536	60,838	182,201	19,186	406,760
Palo	189,044	79,572	238,307	25,094	532,017
Parkers Prairie	125,842	52,969	158,635	16,704	354,151
Paynesville	263,227	110,797	331,822	34,941	740,788
Pennock	213,069	89,685	268,593	28,283	599,630
Pequaywan Lake	65,374	27,517	82,410	8,678	183,980
Pickwick Fire	40,814	17,179	51,449	5,418	114,860
Pike Sandy Britt	140,994	59,347	177,736	18,715	396,793
Plato Fire	166,120	69,923	209,409	22,051	467,503
Porter	262,584	110,527	331,011	34,855	738,978
Princeton	768,960	323,670	969,345	102,071	2,164,046
Proctor	308,083	129,678	388,367	40,895	867,023
Raymond	184,334	77,590	232,370	24,468	518,761
Remer	189,651	79,828	239,072	25,174	533,725
Rice Lake	198,559	83,577	250,301	26,356	558,794
Rockford	307,255	129,330	387,324	40,785	864,694
Russell	123,640	52,042	155,859	16,412	347,953
Sabin Elmwood Fire	225,022	94,716	283,661	29,869	633,267
Sacred Heart	110,688	46,591	139,532	14,693	311,503
Saint Francis	470,037	197,847	592,524	62,392	1,322,800
Saint Leo Fire	119,151	50,153	150,200	15,816	335,320
Saint Paul Park	435,983	183,514	549,597	57,872	1,226,966
Scandia	385,643	162,325	486,139	51,190	1,085,296
Sandstone	156,779	65,991	197,635	20,811	441,216
Scandia Valley	250,220	105,322	315,425	33,214	704,181
Schroeder	116,975	49,237	147,458	15,527	329,197
Shafer	173,762	73,140	219,043	23,065	489,009
Shevlin	180,356	75,915	227,355	23,940	507,567
Silver Lake	129,650	54,572	163,436	17,210	364,868
Solway (Main)	98,846	41,606	124,605	13,121	278,178
Solway(Cloquet)	168,358	70,865	212,230	22,348	473,800
South Haven	347,010	146,063	437,438	46,062	976,573
Spring Grove	144,552	60,845	182,221	19,188	406,806
Spring Lake Park	8,689,044	3,657,383	10,953,336	1,153,375	24,453,138
St Anthony	538,794	226,789	679,199	71,519	1,516,301
Stacy Lent	281,698	118,572	355,107	37,392	792,769
Starbuck	226,849	95,485	285,964	30,112	638,409
Stephen	190,353	80,123	239,958	25,267	535,701
Sunburg	146,403	61,624	184,554	19,433	412,013
Taunton	56,411	23,744	71,111	7,488	158,754

Financial Reports

Retirement Plans Participation

Retirement Plans – Supplemental Investment Fund Investments Fire Relief Plans + Other Public Retirement Plans Participation – As of June 30, 2024

	Domestic Equity	International Equity	Fixed Income	Cash	Total
Statewide Volunteer Firefighter Plan					
Taylors Falls	\$ 160,085	\$ 67,383	\$ 201,802	\$ 21,250	\$ 450,519
Toivola	70,067	29,493	88,326	9,301	197,187
Tower	116,285	48,947	146,588	15,436	327,255
Twin Valley	156,768	65,987	197,620	20,809	441,184
Ulen	144,429	60,793	182,066	19,171	406,460
Underwood	222,390	93,608	280,343	29,520	625,861
Vadnais Heights	872,186	367,120	1,099,471	115,773	2,454,550
Vermilion Lake	106,881	44,988	134,734	14,187	300,791
Vesta	97,492	41,036	122,898	12,941	274,367
Victoria	722,122	303,955	910,301	95,854	2,032,231
Vining	86,952	36,600	109,610	11,542	244,704
Waconia	945,286	397,889	1,191,620	125,476	2,660,271
Waite Park	358,854	151,048	452,368	47,634	1,009,904
Wanda	89,247	37,566	112,504	11,847	251,163
Warba - Feeley - Sago	134,963	56,809	170,134	17,915	379,820
Watertown	617,326	259,844	778,196	81,943	1,737,309
Waterville	222,174	93,517	280,071	29,491	625,254
Wells	262,046	110,300	330,333	34,784	737,464
West Concord	134,897	56,781	170,050	17,906	379,634
West Suburban	1,250,810	526,490	1,576,760	166,031	3,520,091
White Bear Lake	2,981,584	1,255,005	3,758,560	395,772	8,390,923
Willmar	787,483	331,466	992,694	104,530	2,216,173
Winnebago	332,522	139,965	419,175	44,139	935,800
Winthrop	338,159	142,338	426,280	44,887	951,664
Wolf Lake	153,576	64,643	193,596	20,385	432,200
Wood Lake	111,039	46,739	139,975	14,739	312,492
Wrenshall	170,984	71,970	215,541	22,696	481,192
Total Statewide Volunteer Firefighter Assets	\$ 65,345,788	\$ 27,505,281	\$ 82,374,350	\$ 8,673,932	\$ 183,899,352
Total Fire Relief + Other Public Retirement Plans	\$ 576,909,176	\$ 173,700,797	\$ 211,124,656	\$ 20,500,473	\$ 982,235,102

	Stable Value Fund	Domestic Equity	International Equity	Fixed Income	Cash	Total
Participant Directed Investment Program (PDIP) Plan Participation						
MSRS - Empower	\$1,533,053,860				\$ 812,122,837	\$ 2,345,176,697
Pera DCP	3,802,565	69,344,231	4,179,618	21,657,882	2,967,754	101,952,049
Total PDIP Participation	\$1,536,856,425	\$ 69,344,231	\$ 4,179,618	\$ 21,657,882	\$ 815,090,590	\$ 2,447,128,746
Total Supplemental Investment Fund	\$1,536,856,425	\$ 646,253,407	\$ 177,880,415	\$ 232,782,538	\$ 835,591,063	\$ 3,429,363,849

Note: Balanced Fund and Volunteer Firefighter Account assets are recorded in the respective asset group category

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Non-Retirement Funds Participation

Non-Retirement Funds Participation Schedule As of June 30, 2024

	Non-Retirement Cash Fund	Non-Retirement Bond Fund	Non-Retirement Equity Fund	Assigned Risk Plan Fixed Income	Met Council/Duluth Laddered Fixed Income Portfolio	Total
Trust Funds						
Assigned Risk			\$56,316,765	\$221,115,207		\$277,431,972
Closed Landfill		\$44,063,367	\$106,804,364			\$150,867,730
Environmental Trust	\$36,611,569	\$514,859,391	\$1,327,185,356			\$1,878,656,317
Permanent School	\$40,216,329	\$991,862,531	\$1,098,123,949			\$2,130,202,809
Other Trusts:						
3M East Metro Capital & Drinking Water Protection	\$308,500,284					\$308,500,284
3M East Metro Contingency	\$199,190,901					\$199,190,901
3M East Metro O & M	\$125,174,610					\$125,174,610
Center for Rural Policy and Development	\$103,145	\$1,332,870	\$642,627			\$2,078,643
Duluth Community Investment Trust		\$6,134,700	\$29,382,068			\$35,516,767
Emergency Med SVC	\$126,883	\$878,746	\$1,626,709			\$2,632,338
Ethel Currey		\$622,574	\$1,241,643			\$1,864,217
Giants Ridge Investment Account		\$150,407	\$364,982			\$515,388
Iron Range Resources		\$75,662,454	\$123,154,353			\$198,816,807
Life Time Fish & Wild Life	\$1,042,999	\$14,417,062	\$40,674,012			\$56,134,073
Metro Landfill Contingency Action		\$6,087,205	\$14,460,902			\$20,548,108
Mittigation Easement Stewardship		\$425,100	\$1,040,739			\$1,465,839
Natural Resources Conservation		\$927,077	\$2,305,060			\$3,232,137
Saint Louis County Environmental		\$10,716,952	\$15,069,629			\$25,786,582
Water & Soil Conservation Easement		\$2,136,295	\$5,233,789			\$7,370,084
Winona State		\$38,824	\$117,069			\$155,893
Total Trust Fund Assets	\$710,966,721	\$1,670,315,554	\$2,823,744,017	\$221,115,207		\$5,426,141,499
Qualifying Governmental Entities						
Carver County Minnesota			\$3,681,708			\$3,681,708
City of Robbinsdale			\$104,896			\$104,896
City of Woodbury			\$6,916,872			\$6,916,872
Minnesota Counties Intergovernmental Trust			\$6,688,699			\$6,688,699
Total Qualifying Governmental Assets			\$17,392,174			\$17,392,174
Other Post Employment Benefit Plans (OPEB)						
Anoka County (Irrevocable)			\$121,143,635			\$121,143,635
Carver County		\$3,249,662	\$10,984,993			\$14,234,655
City of Eagan			\$31,155,909			\$31,155,909
City of Virginia			\$3,693,445			\$3,693,445
Crosby-Ironton ISD#182	\$91,330	\$2,122	\$6,075,625			\$6,169,077
Duluth					\$113,701,545	\$113,701,545
Fillmore Central Schools #2198	\$337,224					\$337,224
Foley ISD#51		\$731,528	\$2,653,101			\$3,384,629
Hastings ISD#200	\$6,359,237					\$6,359,237
Kingsland ISD#2137			\$519,840			\$519,840
Mendota Hgts Eg WSP#197	\$73,925	\$5,646,828				\$5,720,753
Metro Mosquito Control District		\$37,267	\$6,591,968			\$6,629,235
Metropolitan Council	\$118,592		\$243,379,329		\$120,765,985	\$364,263,906
Mounds View ISD#621	\$6,398,798	\$7,271,622	\$15,115,810			\$28,786,230
Mt. Iron-Buhl District #712		\$1,781,192				\$1,781,192
Ogilvie ISD#333	\$21,789					\$21,789
Port Authority of the City of St. Paul	\$142,982	\$407,555	\$115,010			\$665,547
Ramsey County	\$7,856,062	\$16,733,203	\$115,388,701			\$139,977,965
Roseville District#623		\$5,656,604				\$5,656,604
Scott County		\$8,144,877	\$14,448,941			\$22,593,818
Staples Motley #2170	\$28,475	\$348,449				\$376,924
Washington County		\$11,986,346	\$102,844,660			\$114,831,006
Total OPEB Assets	\$21,428,413	\$61,997,255	\$674,110,966		\$234,467,530	\$992,004,165
Non-Retirement Plan Participation	\$732,395,134	\$1,732,312,809	\$3,515,247,157	\$221,115,207	\$234,467,530	\$6,435,537,838

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Investment Manager Fees – Total Payments for Fiscal Year 2024

Public Markets Investment Manager Fees Paid in FY 2024

Investment Manager Name	Fees Paid in FY 2024
Domestic Equity Active Managers	
ArrowMark Colorado Holdings, LLC	\$ 1,286,782
Barrow Hanley Global Investors	951,888
Goldman Sachs Asset Management, L.P.	977,442
Hood River Capital Management, LLC	1,491,916
Hotchkis and Wiley Capital Management, LLC	1,876,815
LSV Asset Management	843,936
Martingale Asset Management, L.P.	945,376
Peregrine Capital Management	1,267,196
Rice Hall James & Associates, LLC	1,245,466
Sands Capital Management, LLC	687,520
Wellington Management Company LLP	1,224,944
Winslow Capital Management, LLC	666,193
Zevenbergen Capital Investments LLC	962,710
Domestic Equity Semi-Passive Managers	
BlackRock Institutional Trust Company, N.A.	1,760,796
J.P. Morgan Investment Management Inc.	1,744,041
Domestic Equity Passive Manager	
BlackRock Institutional Trust Company, N.A. (Passive R3000)	38,704
BlackRock Institutional Trust Company, N.A. (Passive R2000)	3,406
BlackRock Institutional Trust Company, N.A. (Passive R1000)	1,053,181
Fixed Income Core/Core Plus Managers	
BlackRock Financial Management, Inc.	681,904
Dodge & Cox	1,131,480
Goldman Sachs Asset Management	1,026,835
Neuberger Berman Investment Advisers LLC	1,020,901
Western Asset Management Company	1,155,094
Fixed Income Return Seeking Managers	
Ashmore Investment Management Limited	1,400,926
Ashmore Investment Management Limited	5,571
BlackRock Financial Management, Inc.	1,958,531
Columbia Threadneedle Investments	1,311,624
KKR Credit Advisors (US) LLC	903,814
Oaktree Capital Management, L.P.	1,102,300
Payden & Rygel	1,070,666
Prudential Global Investment Management, Inc. (PGIM)	1,138,329
Pacific Investment Management Company LLC (PIMCO)	1,992,759
TCW Asset Management Company, LLC	1,223,202
Treasury Portfolio Managers	
BlackRock Financial Management, Inc.	1,277,329
Goldman Sachs Asset Management	1,195,895
Neuberger Berman Investment Advisers LLC	1,209,345

Financial Reports

Investment Manager Fees – Total Payments for Fiscal Year 2024

Public Markets Investment Manager Fees Paid in FY 2024

Investment Manager Name	Fees Paid in FY 2024
Laddered Bond Managers	
Goldman Sachs Asset Management	\$ 358,259
Neuberger Berman Investment Advisers LLC	348,834
International Equity Active Developed Markets Managers	
AQR Capital Management, LLC	91,410
Acadian Asset Management LLC	1,963,700
Columbia Threadneedle Investments	1,453,395
Fidelity Institutional Asset Management LLC	1,372,680
J.P. Morgan Investment Management Inc.	1,362,244
Marathon Asset Management LLP	1,367,371
International Equity Passive Manager	
State Street Global Advisors (Developed Markets)	704,932
State Street Global Advisors (Emerging Markets)	491,336
International Equity Active Emerging Markets Managers	
Ashmore Investment Management Limited	25,000
Macquarie Investment Management Advisers	2,056,725
Martin Currie Inc.	2,026,757
Morgan Stanley Investment Management Inc.	2,985,204
Neuberger Berman Investment Advisers LLC	1,902,977
Pzena Investment Management, LLC	3,866,547
The Rock Creek Group, LLC	2,705,910
International Equity Active Opportunistic Strategies	
Earnest Partners (ACWI ex-US)	1,163,404
Earnest Partners LLC (China A Index)	1,594,912
Record Currency LLC (Currency Management)	8,591,724
Global Equity Managers	
Ariel Investments, LLC	1,852,866
Baillie Gifford Overseas Limited	1,174,449
Martin Currie Inc.	1,029,467
Stable Value Manager	
Galliard Capital Management, Inc. ⁽¹⁾	3,146,869
Assigned Risk Plan	
RBC Global Asset Management (U.S.) Inc.	147,905
Non-Retirement	
BNY Mellon Asset Management North America Corporation	118,858
Prudential Global Investment Management, Inc. (PGIM)	1,548,937
State Street Global Advisors	25,094
Total Public Markets Investment Manager Fees Paid	\$ 85,312,581

(1) Includes Investment Contract fees of \$2,383,803 charged by wrap providers.

Financial Reports

Investment Manager Fees – Total Payments for Fiscal Year 2024

Private Markets Investment Management Fees Paid in FY 2024*

Asset Class	Fees Paid in FY 2024
Private Equity	\$ 172,083,934
Private Credit	\$ 25,632,727
Real Estate	\$ 39,937,002
Real Assets	\$ 21,746,231
Total Private Markets Investment Management Fees Paid	\$ 259,399,894

*The SBI has historically reported investment expenses for management fees for public markets investments. Until recently, it was not practicable for the SBI to separate private market management fees from investment income within the timeframe required for inclusion in the fiscal year audit. Investment performance and investment income have historically been reported net of investment management fees and any profit-sharing arrangements, and SBI continues that practice in the entirety of this report.

Financial Reports

Investment Commission and Trading Volume

Commissions and Trading Volume By Broker for Fiscal Year 2024

	Stock Volume	Stock Commission	Bond Volume	Bond Commission	Short Term Volume
ABEL NOSER CORPORATION	\$ 2,904,877	\$ 4,529	\$ -	\$ -	\$ -
ABG SUNDAL COLLIER ASA	\$ 577,543	\$ 461	\$ -	\$ -	\$ -
ABN AMRO CLEARING BANK N.V.	\$ 10,876,397	\$ 3,075	\$ -	\$ -	\$ -
ABSA BANK LIMITED	\$ -	\$ -	\$ 1,566,578	\$ -	\$ -
ACADEMY SECURITIES INC	\$ 663,398	\$ 167	\$ -	\$ -	\$ 13,221,818,182
AGORA CORRETORA DE TITULOS E VALORES MOB	\$ 4,950,085	\$ 4,944	\$ -	\$ -	\$ -
ALTACORP CAPITAL INC	\$ 1,069,221	\$ 4,063	\$ -	\$ -	\$ -
ANDISA SECURITIES (PTY)LIMITED	\$ 2,290,934	\$ 2,293	\$ -	\$ -	\$ -
ASHMORE	\$ -	\$ -	\$ 2,512,828	\$ -	\$ -
ASL CAPITAL MARKETS INC.	\$ -	\$ -	\$ -	\$ -	\$ 24,519,440
AXOS CLEARING LLC	\$ -	\$ -	\$ 815,921	\$ -	\$ -
B.RILEY & CO., LLC	\$ 21,185,070	\$ 19,731	\$ -	\$ -	\$ -
BANCA NAZIONALE DEL LAVORO	\$ -	\$ -	\$ 515,000	\$ -	\$ 532,823,862
BANCO BILBAO VIZCAYA	\$ -	\$ -	\$ 16,642,757	\$ -	\$ -
BANCO CHASE MANHATTAN S.A.	\$ -	\$ -	\$ 25,710,519	\$ -	\$ -
BANCO CITIBANK SA	\$ -	\$ -	\$ 245,047	\$ -	\$ -
BANCO ITAU SA	\$ 20,986,111	\$ 24,713	\$ 4,642,164	\$ -	\$ -
BANCO PACTUAL S.A.	\$ 22,255,236	\$ 30,818	\$ -	\$ -	\$ -
BANCO SANTANDER S.A.	\$ -	\$ -	\$ 18,454,188	\$ -	\$ -
BANCOLOMBIA S.A.	\$ -	\$ -	\$ 2,181,116	\$ -	\$ -
BANCROFT CAPITAL LLC	\$ 452,486	\$ 212	\$ -	\$ -	\$ -
BANK OF AMERICA	\$ 1,460,410,256	\$ 326,342	\$ 10,186,163,849	\$ 289,518	\$ 32,997,656,873
BANK OF MONTREAL	\$ -	\$ -	\$ 280,626,509	\$ -	\$ 790,696,313
BANK OF NOVA SCOTIA	\$ 19,856,133	\$ 8,880	\$ 59,031,878	\$ -	\$ -
BANK OF OKLAHOMA N.A.	\$ -	\$ -	\$ 927,100	\$ -	\$ -
BANK OF TOKYO MITSUBISHI UFJ TRUST	\$ -	\$ -	\$ 99,620	\$ -	\$ -
BANQUE SAUDI FRANSI	\$ 3,692,098	\$ 9,215	\$ -	\$ -	\$ -
BARCLAYS BANK	\$ -	\$ -	\$ 56,753,194	\$ -	\$ 275,000,000
BARCLAYS CAPITAL	\$ 1,015,675,226	\$ 188,208	\$ 4,475,734,397	\$ -	\$ 6,240,855,055
BARRENJOEY MARKETS PTY LIMITED	\$ 245,855	\$ 148	\$ -	\$ -	\$ -
BARRINGTON RESEARCH ASSOCIATES	\$ 1,695,188	\$ 1,626	\$ -	\$ -	\$ -
BBVA SECURITIES INC.	\$ -	\$ -	\$ 8,870,121	\$ -	\$ -
BCP SECURITIES LLC	\$ -	\$ -	\$ 1,204,867	\$ -	\$ -
BERNSTEIN INSTITUTIONAL SERVICES LLC	\$ 7,449,994	\$ 1,315	\$ -	\$ -	\$ -
BERNSTEINAUTONOMOUS LLP	\$ 11,588,221	\$ 10,841	\$ -	\$ -	\$ -
BETZOLD BERG & NUSSBAUM INC.	\$ -	\$ -	\$ 9,085,164	\$ -	\$ -
BGC FINANCIAL, LP	\$ -	\$ -	\$ 236,354	\$ -	\$ -
BLAYLOCK ROBERT VAN LLC	\$ 778,952	\$ 294	\$ 1,838,212	\$ -	\$ -
BMO CAPITAL MARKETS	\$ 70,697,542	\$ 38,410	\$ 1,805,437,000	\$ -	\$ 2,141,711,903
BNP PARIBAS	\$ 908,020,292	\$ 103,598	\$ 1,823,047,924	\$ -	\$ 753,215,293
BNY MELLON	\$ 29,481,725	\$ -	\$ 59,420,297	\$ -	\$ -
BRADESCO S.A. CTVM	\$ 12,889,012	\$ 20,725	\$ 2,491,739	\$ -	\$ -
BRADESCO SECURITIES	\$ 4,225,989	\$ 2,081	\$ -	\$ -	\$ -
BROADCORT CAPITAL CORP	\$ 21,472,567	\$ 17,858	\$ -	\$ -	\$ -
BROWN BROTHERS HARRIMAN + CO	\$ -	\$ -	\$ 2,417,252	\$ -	\$ -
BTG PACTUAL CASA DE BOLSA	\$ 9,399,128	\$ 8,581	\$ -	\$ -	\$ -
BTIG LLC	\$ 19,384,364	\$ 17,301	\$ 423,718	\$ -	\$ -
CABRERA CAPITAL MARKETS	\$ 5,478,453	\$ 582	\$ -	\$ -	\$ -
CACEIS BANK	\$ 12,024,524	\$ 10,061	\$ 124,630	\$ -	\$ -

Financial Reports

Investment Commission and Trading Volume

Commissions and Trading Volume By Broker for Fiscal Year 2024

	Stock Volume	Stock Commission	Bond Volume	Bond Commission	Short Term Volume
CALYON SECURITIES (USA) INC.	\$ -	\$ -	\$ 1,193,435	\$ -	\$ -
CANACCORD GENUITY	\$ 12,982,262	\$ 9,627	\$ -	\$ -	\$ -
CANADIAN IMPERIAL BANK OF COMMERCE	\$ 430,610	\$ 129	\$ -	\$ -	\$ -
CANTOR FITZGERALD + CO	\$ 60,859,287	\$ 18,200	\$ 42,687,715	\$ -	\$ 123,950,000,000
CAP GUARDIAN	\$ 2,291,671	\$ 282	\$ -	\$ -	\$ -
CAPITAL INSTITUTIONAL SVCS INC EQUITIES	\$ 84,152,424	\$ 27,004	\$ -	\$ -	\$ -
CARNEGIE INVESTMENT BANK AB	\$ 794,203	\$ 625	\$ -	\$ -	\$ -
CASTLEOAK SECURITIES LP	\$ 1,180,549	\$ 813	\$ -	\$ -	\$ -
CENTREX SALARIED	\$ -	\$ -	\$ 133,333	\$ -	\$ -
CHINA INTERNATIONAL CAPITAL CO	\$ 27,653,706	\$ 27,840	\$ -	\$ -	\$ -
CIBC WORLD MARKETS	\$ 18,476,072	\$ 5,789	\$ 28,194,511	\$ -	\$ 397,555,302
CIMB BANK BERHAD	\$ -	\$ -	\$ 1,330,773	\$ -	\$ -
CITADEL	\$ 10,460	\$ 5	\$ 1,030,138,773	\$ -	\$ 35,940,162
CITATION GROUP	\$ 693,946	\$ 123	\$ -	\$ -	\$ -
CITIBANK	\$ 271,723,645	\$ 93,159	\$ 74,282,070	\$ -	\$ 606,683,819
CITIGROUP	\$ 813,716,256	\$ 349,898	\$ 7,565,038,928	\$ -	\$ 54,094,242,580
CITIZENS BANK	\$ -	\$ -	\$ 4,629,613	\$ -	\$ -
CL KING	\$ 3,531,275	\$ 2,463	\$ -	\$ -	\$ -
CL SECURITIES TAIWAN COMPANY LIMITED	\$ 9,580,152	\$ 6,177	\$ -	\$ -	\$ -
CLSA	\$ 272,384,492	\$ 117,724	\$ -	\$ -	\$ -
CMB INTERNATIONAL GLOBAL MARKETS LIMITED	\$ -	\$ -	\$ 499,905	\$ -	\$ -
COMMERZBANK AG	\$ -	\$ -	\$ 1,147,038	\$ -	\$ -
COR CLEARING LLC	\$ 1,886,813	\$ 362	\$ -	\$ -	\$ -
CORMARK SECURITIES INC	\$ 464,497	\$ 174	\$ -	\$ -	\$ -
COWEN AND COMPANY, LLC	\$ 271,876,708	\$ 172,713	\$ -	\$ -	\$ -
CRAIG-HALLUM	\$ 12,376,447	\$ 29,056	\$ -	\$ -	\$ -
CREDIT AGRICOLE	\$ -	\$ -	\$ 12,551,329	\$ -	\$ -
CSI GLOBAL MARKETS LIMITED	\$ -	\$ -	\$ 610,050	\$ -	\$ -
DAIWA	\$ 33,215,459	\$ 23,221	\$ 699,373,275	\$ -	\$ 459,900,971
DANSKE BANK A.S.	\$ 1,510,761	\$ 934	\$ -	\$ -	\$ -
DASH FINANCIAL TECHNOLOGIES LLC	\$ 176,682	\$ 57	\$ -	\$ -	\$ -
DAVIDSON D.A. + COMPANY INC.	\$ 17,729,493	\$ 13,767	\$ -	\$ -	\$ -
DAVY STOCKBROKERS	\$ 4,905,270	\$ 2,964	\$ -	\$ -	\$ -
DBS BANK LTD. SINGAPORE	\$ -	\$ -	\$ 261,177	\$ -	\$ -
DBS VICKERS SECURITIES (SINGAPORE)	\$ 26,759	\$ 11	\$ -	\$ -	\$ -
DBTC AMERICA	\$ -	\$ -	\$ 18,662,092	\$ -	\$ -
DEUTSCHE BANK	\$ 17,219,092	\$ 23,310	\$ 1,669,688,335	\$ -	\$ 39,697,980,105
DNB BANK ASA	\$ 598,860	\$ 479	\$ -	\$ -	\$ -
DNB MARKETS CUSTODY, A BUSINESS UNIT OF	\$ 527,642	\$ 422	\$ -	\$ -	\$ -
DREXEL HAMILTON LLC	\$ 1,903,478	\$ 150	\$ -	\$ -	\$ -
DUNCAN WILLIAMS INC	\$ -	\$ -	\$ 3,109,176	\$ -	\$ -
E TRADE SECURITIES CO., LTD	\$ 153,787	\$ 100	\$ -	\$ -	\$ -
EFG HERMES INTERNATIONAL SECURITIES BROK	\$ 4,190,191	\$ 20,734	\$ -	\$ -	\$ -
ELAVON FINANCIAL SERVICES LIMITED	\$ -	\$ -	\$ 107,954	\$ -	\$ -
ELECTRONIC BROKERAGE SYSTEMS, LLC	\$ 323,898	\$ 299	\$ -	\$ -	\$ -
ERSTE BANK BEFEKTETESI RT.	\$ 2,248,788	\$ 4,489	\$ -	\$ -	\$ -
ERSTE GROUP BANK AG	\$ -	\$ -	\$ 479,623	\$ -	\$ -
EUROCLEAR BANK	\$ -	\$ -	\$ 6,396,901	\$ -	\$ -
EVERCORE GROUP L.L.C.	\$ 51,895,584	\$ 31,809	\$ -	\$ -	\$ -

Financial Reports

Investment Commission and Trading Volume

Commissions and Trading Volume By Broker for Fiscal Year 2024

	Stock Volume	Stock Commission	Bond Volume	Bond Commission	Short Term Volume
EXANE S.A.	\$ 742,648	\$ 500	\$ -	\$ -	\$ -
FEDERAL RESERVE BANK OF BOSTON	\$ -	\$ -	\$ 4,420,841	\$ -	\$ 256,379,188
FIDELITY CAPITAL MARKETS	\$ 60,293,562	\$ 12,156	\$ -	\$ -	\$ -
FIRST HORIZON BANK	\$ -	\$ -	\$ 196,798,168	\$ -	\$ 12,697,916
FIRST TENNESSEE SECURITIES CORP	\$ -	\$ -	\$ 2,742,482	\$ -	\$ -
FIRST UNION NATL BK CHARLOTTE	\$ 1,934,096	\$ 3,533	\$ -	\$ -	\$ -
FIRSTRAND BANK LIMITED	\$ -	\$ -	\$ 2,202,976	\$ -	\$ -
FLOW CORRETORA DE MERCADORIAS LTDA.	\$ 18,825,546	\$ 19,562	\$ -	\$ -	\$ -
FLOW TRADERS U.S. INSTITUTIONAL TRADING	\$ -	\$ -	\$ 42,320	\$ -	\$ -
FRANK RUSSELL SEC/BROADCORT CAP CLEARING	\$ 8,337,480	\$ 21,404	\$ -	\$ -	\$ -
GOLDMAN SACHS	\$ 1,882,624,166	\$ 617,169	\$ 5,626,479,480	\$ 210,913	\$ 24,892,619,813
GOODBODY STOCKBROKERS	\$ 25,130	\$ 10	\$ -	\$ -	\$ -
GORDON HASKETT CAPITAL CORP	\$ 3,715,697	\$ 5,319	\$ -	\$ -	\$ -
GUGGENHEIM	\$ 870,576	\$ 728	\$ -	\$ -	\$ -
GUZMAN + CO	\$ 16,056,889	\$ 512	\$ -	\$ -	\$ -
HANWHA SECURITIES SEOUL	\$ 32,642,685	\$ 32,180	\$ -	\$ -	\$ -
HARRIS TRUST + SAVINGS BANK CHICAGO	\$ 14,560,420	\$ 48,869	\$ -	\$ -	\$ 74,544,771
HIBERNIA SOUTHCOAST CAPITAL INC	\$ 4,321,111	\$ 3,704	\$ -	\$ -	\$ -
HILLTOP SECURITIES INC	\$ 2,653,140	\$ 1,750	\$ 22,005,970	\$ -	\$ -
HSBC	\$ 134,510,216	\$ 61,611	\$ 359,167,257	\$ -	\$ 55,405,509,000
HUATAI FINANCIAL HOLDINGS (HK) LTD	\$ 3,848,701	\$ 6,524	\$ -	\$ -	\$ -
ICBC STANDARD BANK PLC	\$ -	\$ -	\$ 147,500	\$ -	\$ -
ICBCFS LLC	\$ -	\$ -	\$ 135,760,125	\$ -	\$ 82,565,361
IMPERIAL CAPITAL	\$ -	\$ -	\$ 1,290,118	\$ -	\$ -
INDUSTRIAL AND COMMERCIAL BANK OF CHINA	\$ -	\$ -	\$ 647,554	\$ -	\$ -
ING BANK	\$ -	\$ -	\$ 8,046,557	\$ -	\$ -
ING BARINGS CORP	\$ -	\$ -	\$ 21,067,342	\$ -	\$ -
INSTINET	\$ 1,052,616,129	\$ 339,587	\$ -	\$ -	\$ -
INTESA SANPAOLO SPA	\$ -	\$ -	\$ 441,650	\$ -	\$ -
INTL FCSTONE FINANCIAL INC	\$ 88,057	\$ 142	\$ 174,142,606	\$ -	\$ 97,569,753
INVESTEC BANK PLC	\$ 415,598	\$ 363	\$ -	\$ -	\$ -
INVESTMENT PLANNING INC	\$ -	\$ -	\$ 226,912	\$ -	\$ -
INVESTMENT TECHNOLOGY GROUP INC.	\$ 5,473,945	\$ 1,444	\$ -	\$ -	\$ -
IPOPEMA SECURITIES S.A.	\$ 864,863	\$ 2,157	\$ -	\$ -	\$ -
ITAU BBA INTERNATIONAL PLC	\$ -	\$ -	\$ 945,460	\$ -	\$ -
ITAU USA SECURITIES INC	\$ 5,616,463	\$ 1,116	\$ -	\$ -	\$ -
ITG	\$ 11,759,261	\$ 5,208	\$ -	\$ -	\$ -
JANE STREET EXECUTION SERVICES, LLC	\$ 420,018	\$ 572	\$ 10,246,077	\$ -	\$ -
JANE STREET FINANCIAL LIMITED	\$ 341,005	\$ 68	\$ -	\$ -	\$ -
JANNEY MONTGOMERY SCOTT INC.	\$ 1,397,980	\$ 1,911	\$ 14,914	\$ -	\$ -
JEFFERIES & CO.	\$ 676,373,649	\$ 299,334	\$ 209,354,032	\$ -	\$ 3,211,478
JMP SECURITIES	\$ 4,375,574	\$ 2,647	\$ -	\$ -	\$ -
JOH. BERENBERG, GOSSLER & CO. KG	\$ 22,713,667	\$ 19,563	\$ -	\$ -	\$ -
JONESTRADING INSTITUTIONAL SERVICES, LLC	\$ 18,115,123	\$ 23,609	\$ -	\$ -	\$ -
JP MORGAN	\$ 1,355,750,599	\$ 597,999	\$ 9,294,030,325	\$ 84,622	\$ 196,077,785,169
KB SECURITIES CO., LTD.	\$ 8,272,963	\$ 9,822	\$ -	\$ -	\$ -
KEEFE BRUYETTE + WOODS INC	\$ 14,634,752	\$ 15,147	\$ -	\$ -	\$ -
KEPLER CAPITAL MARKETS LLC	\$ 5,462,700	\$ 1,893	\$ -	\$ -	\$ -
KEYBANC CAPITAL MARKETS INC	\$ 20,736,766	\$ 23,285	\$ 1,585,342	\$ -	\$ -

Financial Reports

Investment Commission and Trading Volume

Commissions and Trading Volume By Broker for Fiscal Year 2024

	Stock Volume	Stock Commission	Bond Volume	Bond Commission	Short Term Volume
KIM ENG SECURITIES, P.T.	\$ 348,426	\$ 699	\$ -	\$ -	\$ -
KKR CORPORATE CAPITAL SERVICES LLC	\$ -	\$ -	\$ 1,671,125	\$ -	\$ -
LADENBURG THALMAN + CO	\$ 1,413,012	\$ 1,501	\$ -	\$ -	\$ -
LARRAIN VIAL	\$ -	\$ -	\$ 3,269,839	\$ -	\$ -
LEERINK PARTNERS LLC	\$ 11,240,273	\$ 7,202	\$ -	\$ -	\$ -
LIQUIDNET INC	\$ 108,161,888	\$ 58,561	\$ -	\$ -	\$ -
LOOP CAPITAL MARKETS	\$ 167,312,503	\$ 35,438	\$ -	\$ -	\$ -
LUMINEX TRADING AND ANALYTICS	\$ 15,462,874	\$ 1,732	\$ -	\$ -	\$ -
MACQUARIE BANK LIMITED	\$ 159,029,679	\$ 121,982	\$ -	\$ -	\$ -
MANUFACTURERS AND TRADERS TRUST COMPANY	\$ -	\$ -	\$ 1,295,000	\$ -	\$ -
MAXIM GROUP	\$ 1,248,696	\$ 512	\$ -	\$ -	\$ -
MAYBANK KIM ENG SECURITIES PTE LTD	\$ 89,927	\$ 18	\$ -	\$ -	\$ -
MERRILL LYNCH	\$ 364,400,601	\$ 195,031	\$ 33,937,953	\$ -	\$ -
MESIROW FINANCIAL INC.	\$ -	\$ -	\$ 50,175	\$ -	\$ -
MILLENNIUM ADVISORS LLC	\$ -	\$ -	\$ 1,436,659	\$ -	\$ -
MIRAE ASSET	\$ 527,456	\$ 360	\$ -	\$ -	\$ -
MISCHLER FINANCIAL GROUP	\$ 14,883,866	\$ 15,033	\$ -	\$ -	\$ 153,864,398
MITSUBISHI UFJ SECURITIES	\$ 63,284	\$ 25	\$ 753,466,614	\$ -	\$ 1,111,652,623
MIZUHO CORP	\$ 89,791,069	\$ 61,507	\$ 3,062,538,818	\$ -	\$ 1,093,295,109
MKM PARTNERS LLC	\$ 575,869	\$ 504	\$ -	\$ -	\$ -
MORGAN STANLEY	\$ 1,348,961,054	\$ 372,968	\$ 12,825,570,407	\$ -	\$ 123,691,130
MUFG SECURITIES LTD.	\$ -	\$ -	\$ 1,586,348	\$ -	\$ -
NATIONAL BANK FINANCIAL INC	\$ 4,085,024	\$ 1,362	\$ -	\$ -	\$ -
NATIONAL BANK FINANCIAL INC./CDS	\$ 133,089	\$ 40	\$ 2,272,543	\$ -	\$ -
NATIONAL BANK OF CANADA	\$ -	\$ -	\$ 2,439,146	\$ -	\$ -
NATIONAL FINANCIAL SERVICES CORP	\$ 112,021,522	\$ 55,215	\$ 117,111,548	\$ -	\$ 41,812,346
NATIXIS	\$ -	\$ -	\$ 753,406	\$ -	\$ -
NATWEST MARKETS PLC	\$ -	\$ -	\$ 529,752	\$ -	\$ -
NEEDHAM AND COMPANY LLC	\$ 18,961,540	\$ 17,449	\$ -	\$ -	\$ -
NOMURA	\$ -	\$ -	\$ 1,045,311,420	\$ -	\$ 28,589,777,456
NORDEA BANK ABP	\$ 8,797,584	\$ 5,346	\$ -	\$ -	\$ -
NORTH SOUTH CAPITAL LLC	\$ 17,284,232	\$ 6,886	\$ -	\$ -	\$ -
NORTHERN TRUST COMPANY, THE	\$ 1,850,997	\$ 11	\$ 942,508	\$ -	\$ -
NORTHLAND SECURITIES INC.	\$ 9,372,386	\$ 4,727	\$ 177,739	\$ -	\$ -
NUMIS SECURITIES LIMITED	\$ 110,177	\$ 55	\$ -	\$ -	\$ -
OAKTREE CAPITAL	\$ -	\$ -	\$ 1,228,588	\$ -	\$ -
ODDO ET CIE	\$ 130,110	\$ 104	\$ 100,745	\$ -	\$ -
OPPENHEIMER	\$ 49,700,148	\$ 34,178	\$ 4,822,899	\$ -	\$ -
OPTIVER VOF	\$ 8,830,854	\$ 3,028	\$ -	\$ -	\$ -
PANMURE GORDON (UK) LIMITED	\$ 1,129,642	\$ 726	\$ -	\$ -	\$ -
PAREL	\$ 5,819,429	\$ 4,357	\$ -	\$ -	\$ -
PEEL HUNTLLP	\$ 271,188	\$ 271	\$ -	\$ -	\$ -
PENSERRA SECURITIES	\$ 105,708,250	\$ 49,378	\$ -	\$ -	\$ -
PERSHING LLC	\$ 929,100,635	\$ 175,715	\$ 3,852,079,172	\$ -	\$ 5,696,686,440
PETERS AND CO LIMITED	\$ 84,070	\$ 39	\$ -	\$ -	\$ -
PGM GLOBAL INC.	\$ 5,055,656	\$ 355	\$ -	\$ -	\$ -
PIPER JAFFRAY & CO.	\$ 160,312,670	\$ 86,294	\$ -	\$ -	\$ -
PIRAEUS BANK SA	\$ -	\$ -	\$ 141,352	\$ -	\$ -
PNC SECURITIES CORP	\$ -	\$ -	\$ 2,702,000	\$ -	\$ -

Financial Reports

Investment Commission and Trading Volume

Commissions and Trading Volume By Broker for Fiscal Year 2024

	Stock Volume	Stock Commission	Bond Volume	Bond Commission	Short Term Volume
RAIFFEISEN ZENTRALBANK OESTERREICH AG	\$ -	\$ -	\$ 2,562,273	\$ -	\$ -
RAYMOND JAMES	\$ 41,370,949	\$ 55,324	\$ 4,872,374	\$ -	\$ -
RBC	\$ 364,269,037	\$ 120,810	\$ 1,095,073,316	\$ -	\$ 5,744,615,097
REDBURN	\$ 11,246,228	\$ 5,322	\$ -	\$ -	\$ -
REYNOLDS ROBBINS SECURITIES INC	\$ -	\$ -	\$ 771,125	\$ -	\$ -
ROBERT W. BAIRD CO.INCORPORATED	\$ 107,149,092	\$ 79,174	\$ 32,622,151	\$ -	\$ -
ROBERTS & RYAN	\$ 888,678	\$ 943	\$ -	\$ -	\$ -
ROSENBLATT SECURITIES INC.	\$ 4,453,599	\$ 2,376	\$ -	\$ -	\$ -
ROTH CAPITAL PARTNERS LLC	\$ 7,204,361	\$ 5,502	\$ -	\$ -	\$ -
ROYAL BANK OF CANADA	\$ 5,300,567	\$ 3,582	\$ 31,135,257	\$ -	\$ -
ROYAL BANK OF SCOTLAND	\$ -	\$ -	\$ 161,131,414	\$ -	\$ 69,634,000,000
SAMSUNG SECURITIES CO LTD	\$ 5,090,386	\$ 7,106	\$ -	\$ -	\$ -
SANFORD C. BERNSTEIN AND CO. LLC	\$ 95,612,705	\$ 33,304	\$ -	\$ -	\$ -
SANTANDER	\$ 13,584,444	\$ 8,805	\$ 1,418,481,054	\$ -	\$ 3,478,420
SCOTIAMCLEOD (U.S.A.) INC.	\$ 7,308,022	\$ 4,179	\$ 64,301,046	\$ -	\$ 213,387,481
SEAPORT GROUP SECURITIES LLC	\$ 11,135,471	\$ 7,524	\$ 5,463,767	\$ -	\$ -
SG AMERICAS SECURITIES LLC	\$ 26,933,375	\$ 6,378	\$ 198,520,747	\$ -	\$ 622,408,105
SKANDINA VISKA ENSKILDA BANKEN	\$ 2,139,009	\$ 1,671	\$ -	\$ -	\$ -
SMBC NIKKO SECURITIES	\$ 11,636,916	\$ 6,134	\$ 9,176,152	\$ -	\$ -
SOCIETE GENERALE	\$ 40,265,222	\$ 18,550	\$ 8,259,716	\$ -	\$ -
STANDARD BANK OF SOUTH AFRICA LTD	\$ -	\$ -	\$ 293,756	\$ -	\$ -
STANDARD CHARTERED BANK	\$ -	\$ -	\$ 35,196,750	\$ -	\$ -
STATE STREET BANK AND TRUST	\$ 259,795,022	\$ 3,620	\$ 14,163,879,872	\$ -	\$ 2,746,051,244
STATE STREET GLOBAL MARKETS, LLC	\$ 84,455,951	\$ 26,383	\$ 8,606,721	\$ -	\$ -
STEPHENS INC	\$ 51,905,589	\$ 51,084	\$ 4,406,036	\$ -	\$ -
STIFEL NICOLAUS + CO INC	\$ 68,049,688	\$ 57,163	\$ 31,408,634	\$ -	\$ -
STONEX FINANCIAL INC.	\$ -	\$ -	\$ 1,323,538	\$ -	\$ -
STRATEGAS SECURITIES LLC	\$ 424,618	\$ 586	\$ -	\$ -	\$ -
STUART FRANKEL + CO INC	\$ 147,797	\$ 155	\$ -	\$ -	\$ -
SUMRIDGE PARTNERS LLC	\$ -	\$ -	\$ 2,616,922	\$ -	\$ -
SUNTRUST CAPITAL MARKETS, INC.	\$ 16,686,697	\$ 16,911	\$ -	\$ -	\$ -
SVENSKA HANDELSBANKEN	\$ 465,024	\$ 306	\$ -	\$ -	\$ -
TD SECURITIES INC.	\$ -	\$ -	\$ 7,143,772	\$ -	\$ -
TELSEY ADVISORY GROUP	\$ 4,383,012	\$ 6,107	\$ -	\$ -	\$ -
THE BENCHMARK COMPANY LLC	\$ 1,801,683	\$ 4,555	\$ -	\$ -	\$ -
THE HONGKONG AND SHANGHAI BANKING	\$ 4,662,346	\$ 9,354	\$ -	\$ -	\$ -
TIGRESS FINANCIAL PARTNERS LLC	\$ 725,998	\$ 373	\$ -	\$ -	\$ -
TORONTO DOMINION BANK	\$ 9,037,833	\$ 3,940	\$ 1,339,764,167	\$ -	\$ 2,157,428,411
TPCG FINANCIAL SERVICES S.A	\$ -	\$ -	\$ 620,594	\$ -	\$ -
TRUIST SECURITIES, INC.	\$ -	\$ -	\$ 40,600,797	\$ -	\$ -
U.S. BANK	\$ -	\$ -	\$ 37,097,049	\$ -	\$ 774,953,646
UBS	\$ 1,243,200,679	\$ 382,090	\$ 70,603,464	\$ -	\$ 10,935,497,405
UNICREDITBANK AG (HYPOVEREINSBANK)	\$ -	\$ -	\$ 765,643	\$ -	\$ -
US BANCORP INVESTMENTS INC	\$ -	\$ -	\$ 61,889,278	\$ -	\$ -
VALEURS MOBILIERES DESJARDINS	\$ 899,669	\$ 339	\$ -	\$ -	\$ -
VIRTU	\$ 270,678,707	\$ 63,764	\$ 2,456,615	\$ -	\$ -
WACHOVIA SECURITIES INTERNATIONAL LTD	\$ 3,891,560	\$ 1,556	\$ -	\$ -	\$ -
WEDBUSH SECURITIES INC	\$ 3,861,362	\$ 4,240	\$ 186,579	\$ -	\$ -
WELLS FARGO	\$ 132,416,430	\$ 45,923	\$ 4,214,920,712	\$ -	\$ 3,400,838,828

Financial Reports

Investment Commission and Trading Volume

Commissions and Trading Volume By Broker for Fiscal Year 2024

	Stock Volume	Stock Commission	Bond Volume	Bond Commission	Short Term Volume
WILLIAM BLAIR & COMPANY L.L.C	\$ 18,145,571	\$ 25,412	\$ -	\$ -	\$ -
WILLIAMS CAPITAL GROUP LP (THE)	\$ 649,557	\$ 577	\$ -	\$ -	\$ -
WINTERFLOOD SECURITIES LTD	\$ 123,503	\$ 74	\$ -	\$ -	\$ -
WOOD AND COMPANY	\$ 116,607	\$ 58	\$ -	\$ -	\$ -
XP INVESTIMENTOS CCTVM SA	\$ 10,762,011	\$ 10,758	\$ -	\$ -	\$ -
YUANTA SECURITIES CO., LTD.	\$ 3,473,099	\$ 6,956	\$ -	\$ -	\$ -
Grand Total	\$ 17,766,377,022	\$ 6,434,949	\$ 90,851,129,001	\$ 585,053	\$ 686,166,920,448

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