

Comprehensive Performance Report

March 31, 2022





Description of SBI Investment Programs

The Minnesota State Board of Investment is responsible for the investment management of various retirement funds, trust funds and cash accounts.

Combined Funds

The Combined Funds represent the assets for both the active and retired public employees in the statewide retirement systems, the biggest of which are the Public Employees Retirement Association (PERA), the Teachers Retirement Association (TRA), and the Minnesota State Retirement System (MSRS). The SBI commingles the assets of these plans into the Combined Funds to capture investment efficiencies. All assets in the Combined Funds are managed externally by investment management firms retained by contract.

Fire Plans + Other Retirement Plans

Fire Plans and Other Retirement Plans include assets from volunteer fire relief plans and other public retirement plans with authority to invest with the SBI, if they so choose. Fire Plans that are not eligible to be consolidated with Public Employees Retirement Association (PERA) or elect not to be administered by PERA may invest their assets with the SBI using the same asset pools as the Combined Funds. The Statewide Volunteer Firefighter Retirement Plan is administered by PERA and has its own investment vehicle called the Volunteer Firefighter Account.

Participant Directed Investment Program

The Participant Directed Investment Program (PDIP) provides investment vehicles for a variety of retirement or other tax-advantaged savings plans. Investment goals among the PDIP's many participants are varied. In order to meet the variety of goals, participants may allocate their investments among one or more accounts that are appropriate for their needs within statutory requirements and rules established by the participating organizations.

Non-Retirement Funds

The Non-Retirement Funds are funds established by the State of Minnesota and other government entities for various purposes which include the benefit of public schools, the environment, other post-employment benefits, workers compensation insurance, and other purposes.

State Cash

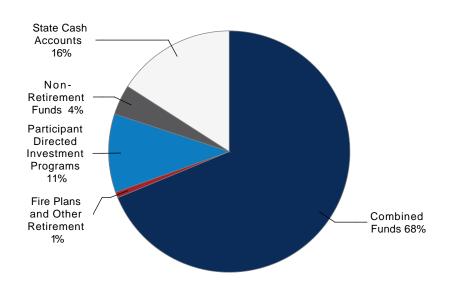
The State Cash accounts are cash balances of state government funds including the State General Fund. Most accounts are invested by SBI staff through a short-term pooled fund referred to as the Treasurer's Cash Pool. It contains the cash balances of special or dedicated accounts necessary for the operation of certain State agencies and non-dedicated cash in the State Treasury. Because of special legal restrictions, a small number of cash accounts cannot be commingled.





Funds Under Management

Combined Funds	\$ Millions \$89,861
Fire Plans + Other Retirement Plans	991
Participant Directed Investment Program	13,775
State Deferred Compensation Plan	9,536
Health Care Savings Plan	1,702
Unclassified Employees Retirement Plan	384
Hennepin County Supplemental Retirement Plan	182
PERA Defined Contribution Plan	96
Minnesota College Savings Plan	1,847
Minnesota Achieving a Better Life Experience Plan	28
Non-Retirement Funds	5,264
Assigned Risk Plan	267
Permanent School Fund	1,952
Environmental Trust Fund	1,667
Closed Landfill Investment Fund	133
Miscellaneous Trust Funds	358
Other Postemployment Benefits Accounts	887
State Cash	21,492
Invested Treasurer's Cash	21,424
Other State Cash Accounts	68
Total SBI AUM	131,383



Note: Differentials within column amounts may occur due to rounding





Quarterly Report

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Environmental Trust Fund		Note:
Closed Landfill Investment Fund		Throughout this report performance is calculated net of investment management fees, gross of administrative fees. Aggregates include terminated managers, and
Non-Retirement Managers		returns for all periods greater than one year are annualized. Inception Date and
State Cash Accounts	119	Since Inception Returns refer to the date of retention by the SBI. FYTD refers to the return generated by an account since July 1 of the most recent year. For
Invested Treasurer's Cash		historical benchmark details, please refer to the addendum of this report. Some
Other State Cash Accounts		aggregate inception to date return are based portfolio management decisions to re-group manager accounts in different or newly created aggregates.
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Combined Funds

March 31, 2022





Combined Funds Summary

Combined Funds Change in Market Value (\$Millions)

•	One Quarter
Combined Funds	
Beginning Market Value	\$94,134
Net Contributions	-705
Investment Return	-3,567
Ending Market Value	89,861

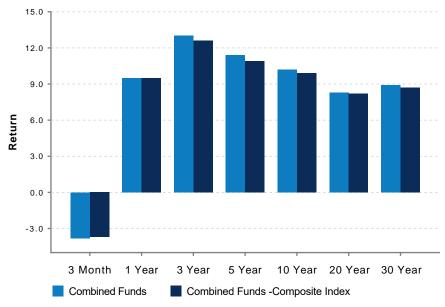
The change in market value of the Combined Funds since the end of last quarter is due to net contributions and investment returns.

Performance (Net of Fees)

The Combined Funds' performance is evaluated relative to a composite of public market index and private market investment returns. The Composite performance is calculated by multiplying the beginning of month Composite weights and the monthly returns of the asset class benchmarks.

	<u>Qtr</u>	FYTD	<u>1 Yr</u>	<u>3 Yr</u>	<u>5 Yr</u>	<u>10 Yr</u>	<u>20 Yr</u>	<u>30 Yr</u>
Combined Funds	-3.8%	2.7%	9.5%	13.0%	11.4%	10.2%	8.3%	8.9%
Combined Funds - Composite Index	-3.7%	2.7%	9.5%	12.6%	10.9%	9.9%	8.2%	8.7%
Excess	-0.1%	-0.0%	0.0%	0.5%	0.4%	0.3%	0.2%	0.2%









Combined Funds Summary

Asset Mix

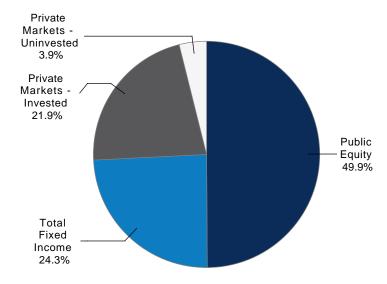
The Combined Funds actual asset mix relative to the Strategic Asset Allocation Policy Target is shown below. Any uninvested portion of the Private Markets allocation is held in Public Equity.

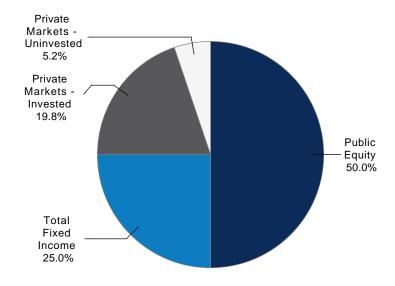
	(Millions)	Actual Mix	Policy Target
Public Equity	\$44,835	49.9%	50.0%
Total Fixed Income	21,863	24.3	25.0
Private Markets - Total	23,164	25.8	25.0
Private Markets - Invested	19,659	21.9	
Private Markets - Uninvested	3,505	3.9	
TOTAL	89,861	100.0	

Composite Index Comparison

The Combined Funds Composite is set as the Strategic Asset Allocation Policy Target. Asset class weights for Private Markets - Invested and Private Markets - Uninvested are reset at the start of each month. The Combined Funds Composite weighting shown below is as of the first day of the quarter.

	Policy Weight	Market Index
Public Equity	50.0%	Public Equity Benchmark
Total Fixed Income	25.0	Total Fixed Income Benchmark
Private Markets - Invested	19.8	Private Markets
Private Markets - Uninvested	5.2	S&P 500









Combined Funds Asset Class Performance Summary

Public Equity

The Combined Funds Public Equity includes Domestic Equity, International Equity and Global Equity.

The Public Equity benchmark is 67% Russell 3000 and 33% MSCI ACWI ex US (net).

	Market Value	Actual Weight	Policy Weight	Last Qtr	FYTD	1 Year	3 Year	5 Year	10 Year	20 Year	<u>30 Year</u>
Public Equity	\$44.8	49.9%	50.0%	-5.7%	-0.2%	7.1%	14.9%	12.7%	11.9%	8.5%	9.4%
Public Equity Benchmark				-5.3	0.1	7.4	14.6	12.5			
Excess				-0.3	-0.2	-0.3	0.3	0.2			
Domestic Equity	30.5	33.9	33.5	-5.5	3.1	11.6	18.3	15.5	14.2	9.3	10.2
Domestic Equity Benchmark				-5.3	3.4	11.9	18.1	15.3	14.3	9.4	10.3
Excess				-0.2	-0.3	-0.3	0.2	0.1	-0.0	-0.1	-0.1
International Equity	13.4	14.9	16.5	-5.7	-6.2	-1.4	8.2	7.3	6.2	6.7	
International Equity Benchmark				-5.4	-6.6	-1.5	7.5	6.7	5.5	6.4	
Excess				-0.2	0.4	0.1	0.8	0.5	0.6	0.3	
Global Equity	1.0	1.1	0.0	-11.8	-12.9	-3.6					
MSCI AC WORLD INDEX NET				-5.4	-0.1	7.3					
Excess				-6.5	-12.8	-10.9					

Note:

Prior to 6/30/16 the returns of Domestic and International Equity were not reported as a total Public Equity return. For additional information regarding historical asset class performance and benchmarks, please refer to the Combined Funds Performance Report.





Combined Funds Asset Class Performance Summary

Total Fixed Income

The Combined Funds Fixed Income program includes Core/Core Plus, Return Seeking Fixed Income, Treasuries and Laddered Bond + Cash.

The Total Fixed Income benchmark is 40% Bloomberg U.S. Aggregate Index/ 40% Bloomberg Treasury 5+ Years Index/ 20% ICE BofA US 3-Month Treasury Bill.

	Market Value	Actual Weight	Policy Weight	Last Qtr	FYTD	1 Year	3 Year	5 Year	10 Year	20 Year	30 Year
Total Fixed Income	\$21.9	24.3%	25.0%	-5.6%	-5.2%	-2.9%	3.2%	3.3%	3.2%	4.6%	5.6%
Total Fixed Income Benchmark				-5.6%	-5.1%	-2.9%	2.7%				
Excess				0.0%	-0.1%	0.0%	0.5%				
Core/Core Plus	\$4.5	5.0%	5.0	-6.5%	-6.4%	-4.4%	2.5%	2.8%	2.9%	4.4%	5.5%
Core Bonds Benchmark				-5.9%	-5.9%	-4.2%	1.7%	2.1%	2.2%	4.0%	5.1%
Excess				-0.5%	-0.5%	-0.3%	0.8%	0.7%	0.7%	0.4%	0.4%
Return Seeking Fixed Income	\$3.8	4.3%	5.0	-5.1%	-5.1%	-2.9%					
Bloomberg U.S. Aggregate				-5.9%	-5.9%	-4.2%					
Excess				0.8%	0.8%	1.3%					
Treasury Protection	\$8.3	9.2%	10.0	-7.8%	-6.7%	-3.1%	2.2%				
Bloomberg Treasury 5+ Year				-8.1%	-6.8%	-3.1%	2.2%				
Excess				0.3%	0.1%	0.1%	0.1%				
Laddered Bond + Cash	\$5.2	5.8%	5.0	-0.2%	-0.3%	-0.2%	0.7%	1.1%	0.7%	1.5%	3.1%
ICE BofA US 3-Month Treasury Bill				0.0%	0.1%	0.1%	0.8%	1.1%	0.6%	1.3%	2.4%
Excess				-0.3%	-0.3%	-0.3%	-0.1%	-0.0%	0.1%	0.2%	0.7%

Note:

Since 12/1/2020 the Total Fixed Income includes allocations to Core/Core Plus Bonds, Return Seeking Bonds, Treasuries and Laddered Bond + Cash. From 7/1/2020 to 11/30/2020 Total Fixed Income was Core Bonds, Treasuries and Cash. From 2/1/2018-6/30/20 Total Fixed Income was Core Bonds and Treasuries. Prior to 2/1/2018, Total Fixed Income was Core Bonds. For additional information regarding historical asset class performance and benchmarks, please refer to the Combined Funds Performance Report.





Combined Funds Asset Class Performance Summary

Private Markets									
	Last Qtr	FYTD	1 Year	3 Year	5 Year	10 Year	20 Year	25 Year	30 Year
Private Markets - Invested	3.0%	19.9%	31.8%	18.3%	16.5%	13.9%	13.8%	13.8%	13.0%
Private Markets -Uninvested (1)	-4.2%	7.0%	16.1%						
Private Equity	3.3%	20.7%	33.9%	25.1%	21.9%	18.0%	15.9%	15.4%	15.3%
Private Credit	0.2%	13.7%	22.7%	11.3%	12.0%	12.9%	12.4%	12.6%	
Resources	2.8%	16.8%	27.8%	-0.3%	2.2%	2.2%	12.8%	12.5%	12.3%
Real Estate	4.8%	26.4%	32.3%	15.6%	13.6%	12.9%	9.7%	10.6%	9.1%

Private Markets

The time-weighted rates of return for the Private Markets portfolio are shown here. Private Markets included Private Equity, Private Credit, Resources, and Real Estate. Some of the existing investments are relatively immature and returns may not be indicative of future results.

Private Equity Investments - The objectives of the Private Equity portfolio, which may include leveraged buyouts, growth equity, venture capital and special situations, are to achieve attractive returns and to provide overall portfolio diversification to the total plan.

Private Credit Investments - The objectives of the Private Credit portfolio, which may include mezzanine debt, direct lending, and other forms of non-investment grade fixed income instruments, are to achieve a high total return over a full market cycle and to provide some degree of downside protection and typically provide current income in the form of a coupon. In certain situations, investments in the Private Credit portfolio also provide an equity component of return in the form of warrants or re-organized equity.

Resource Investments - The objectives of the Resources portfolio, which may include energy, infrastructure, and other hard assets, are to provide protection against the risks associated with inflation and to provide overall portfolio diversification to the total plan.

Real Estate Investments - The objectives of the Real Estate portfolio, which may include core and non-core real estate investments, are to achieve attractive returns, preserve capital, provide protection against risks associated with inflation, and provide overall portfolio diversification to the total plan.

The SBI also monitors Private Markets performance using money-weighted return metrics such as Internal Rate of Return and Multiple of Invested Capital. For money-weighted return metrics please refer to the Combined Funds Performance Report.

(1) The Uninvested portion of the Private Markets allocation is invested in a combination of a passively managed S&P 500 Index strategy and a cash overlay strategy invested in equity derivatives and cash.



Quarterly Report



Asset Class & Manager Performance March 31, 2022

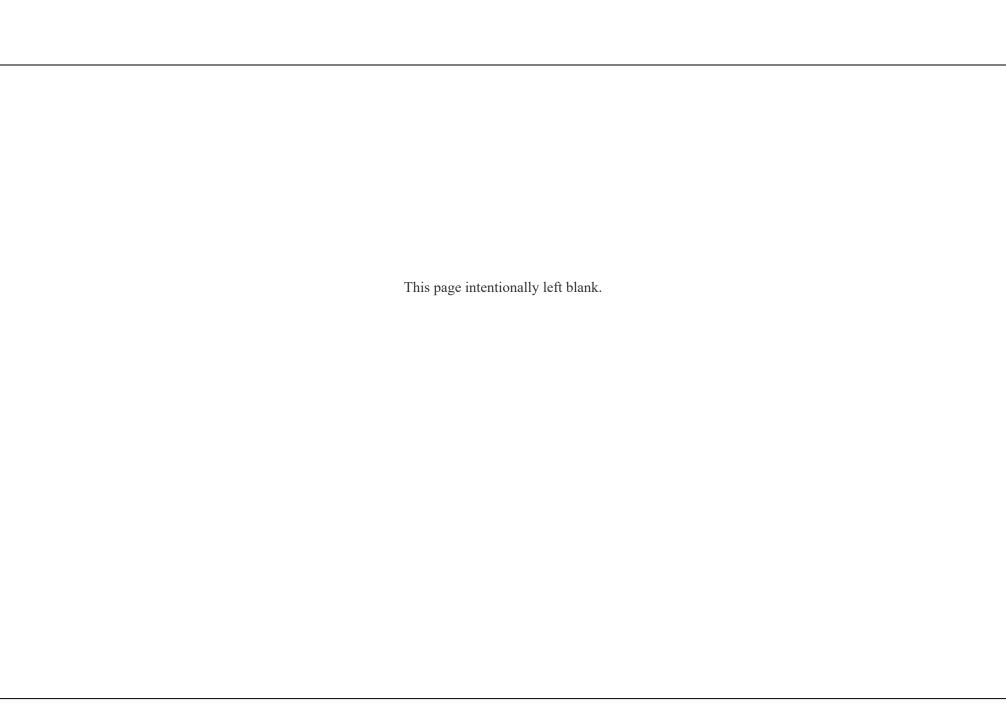
The assets of the Combined Funds are allocated to public equity, fixed income, private markets, and cash. Each asset class may be further differentiated by geography, management style, and/or strategy. Managers are hired to manage the assets accordingly. This diversification is intended to reduce wide fluctuations in investment returns on a year-to-year basis and enhances the Funds' ability to meet or exceed the actuarial return target over the long-term.

The Combined Funds consist of the assets of active employees and retired members of the statewide retirement plans. The SBI commingles the assets of these plans into the Combined Funds to capture investment efficiencies. This sharing is accomplished by grouping managers by asset class, geography, and management style, into several Investment Pools. The individual funds participate in the Investment Pools by purchasing units which function much like the shares of a mutual fund.

While the vast majority of the units of these pools are owned by the Combined Funds, the Supplemental Investment Fund also owns units of these pools. The Supplemental Investment Funds are mutual fund-like investment vehicles which are used by investors in the Participant Directed Investment Program. Please refer to the Participant Directed Investment Program report for more information.

The performance information presented on the following pages for Public Equity and Fixed Income includes both the Combined Funds and Supplemental Investment Fund. The Private Markets is Combined Funds only. All assets in the Combined Funds are managed externally by investment management firms retained by contract.







Domestic Equity March 31, 2022





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Total Domestic Equity										
ACTIVE DOMESTIC EQUITY AGGREGATE (1)	\$3,271,324,924	10.5%	-7.3%	-5.2%	0.7%	15.5%	13.8%	13.1%	8.8%	06/1996
Active Domestic Equity Benchmark			-6.4	-3.2	2.9	14.9	12.5	12.8	9.3	06/1996
Excess			-1.0	-2.0	-2.1	0.7	1.3	0.3	-0.6	
SEMI PASSIVE DOMESTIC EQUITY AGGREGATE (2)	3,192,434,890	10.3	-5.4	5.1	14.3	19.3	16.1	14.7	9.5	06/1996
Semi Passive Domestic Equity Benchmark			-5.1	4.4	13.3	18.7	15.8	14.5	9.4	06/1996
Excess			-0.3	0.7	1.0	0.6	0.3	0.2	0.1	
PASSIVE DOMESTIC EQUITY AGGREGATE (3)	24,649,137,653	79.2	-5.2	4.2	13.1	18.6	15.7	14.4	9.6	06/1996
Passive Domestic Equity Benchmark			-5.1	4.3	13.1	18.6	15.7	14.4	9.7	06/1996
Excess			-0.1	-0.1	-0.1	0.0	-0.0	-0.0	-0.1	
TRANSITION AGGREGATE DOMESTIC EQUITY (4)	7	0.0								
TOTAL DOMESTIC EQUITY (5)	31,112,897,474	100.0	-5.5	3.1	11.6	18.3	15.5	14.2	11.0	01/1984
Domestic Equity Benchmark			-5.3	3.4	11.9	18.1	15.3	14.3	11.2	01/1984
Excess			-0.2	-0.3	-0.3	0.2	0.1	-0.0	-0.2	



⁽¹⁾ The Active Domestic Equity Benchmark is a weighted composite each of the individual active domestic equity manager's benchmarks.

⁽²⁾ The current Semi-Passive Domestic Equity Benchmark is the Russell 1000 index.

⁽³⁾ The current Passive Domestic Equity Benchmark is a weighted average of the Russell 1000, Russell 2000 and Russell 3000.

⁽⁴⁾ The Transition Domestic Equity Aggregate will periodically contain residual Domestic Equity securities from transitions.

⁽⁵⁾ The current Domestic Equity Benchmark is the Russell 3000.



	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Total Domestic Equity					
ACTIVE DOMESTIC EQUITY AGGREGATE (1)	18.5%	27.3%	27.6%	-6.5%	20.6%
Active Domestic Equity Benchmark	20.3	19.8	28.2	-8.0	18.3
Excess	-1.7	7.5	-0.6	1.4	2.3
SEMI PASSIVE DOMESTIC EQUITY AGGREGATE (2)	28.8	21.0	30.9	-4.9	22.5
Semi Passive Domestic Equity Benchmark	26.5	21.0	31.4	-4.8	21.7
Excess	2.3	0.0	-0.5	-0.1	0.8
PASSIVE DOMESTIC EQUITY AGGREGATE (3)	26.5	20.8	31.3	-5.0	21.3
Passive Domestic Equity Benchmark	26.4	20.8	31.3	-5.0	21.5
Excess	0.1	0.0	0.0	-0.0	-0.2

TRANSITION AGGREGATE DOMESTIC EQUITY (4)

TOTAL DOMESTIC	QUITY (5) 25.8	21.7	30.7	-5.3	21.4	
Domestic Equity Bend	nmark 25.7	20.8	30.8	-5.2	21.1	
Excess	0.1	0.9	-0.1	-0.0	0.2	



⁽¹⁾ The Active Domestic Equity Benchmark is a weighted composite each of the individual active domestic equity manager's benchmarks.

⁽²⁾ The current Semi-Passive Domestic Equity Benchmark is the Russell 1000 index.

⁽³⁾ The current Passive Domestic Equity Benchmark is a weighted average of the Russell 1000, Russell 2000 and Russell 3000.

⁽⁴⁾ The Transition Domestic Equity Aggregate will periodically contain residual Domestic Equity securities from transitions.

⁽⁵⁾ The current Domestic Equity Benchmark is the Russell 3000.



	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Active Large Cap Growth										
SANDS	\$216,151,594	0.7%	-21.6%	-23.8%	-15.4%	15.5%	19.1%	15.0%	12.2%	01/2005
Russell 1000 Growth			-9.0	2.7	15.0	23.6	20.9	17.0	12.1	01/2005
Excess			-12.5	-26.5	-30.4	-8.1	-1.8	-2.0	0.1	
WINSLOW	187,646,417	0.6	-12.8	-3.5	8.0	19.5	20.3	15.7	12.3	01/2005
Russell 1000 Growth			-9.0	2.7	15.0	23.6	20.9	17.0	12.1	01/2005
Excess			-3.7	-6.2	-6.9	-4.1	-0.6	-1.3	0.2	
RUSSELL 1000 GROWTH AGGREGATE (1)	403,798,011	1.3	-17.7	-15.6	-6.0	23.2	23.6	17.9	12.2	11/2003
Russell 1000 Growth			-9.0	2.7	15.0	23.6	20.9	17.0	11.9	11/2003
Excess			-8.7	-18.3	-21.0	-0.4	2.8	0.9	0.3	



⁽¹⁾ Prior to 1/1/2021 the Russell 1000 Growth Aggregate included returns from Zevenbergen, which moved to the Russell 3000 Growth benchmark and is now reported separately.



2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
5.2%	71.0%	33.5%	7.0%	35.3%
27.6	38.5	36.4	-1.5	30.2
-22.4	32.5	-2.8	8.6	5.1
24.8	37.6	34.2	4.2	33.2
27.6	38.5	36.4	-1.5	30.2
-2.8	-0.9	-2.2	5.7	3.0
12.8	81.3	37.3	4.7	33.4
27.6	38.5	36.4	-1.5	30.2
-14.8	42.8	0.9	6.2	3.2
	5.2% 27.6 -22.4 24.8 27.6 -2.8 12.8 27.6	5.2% 71.0% 27.6 38.5 -22.4 32.5 24.8 37.6 27.6 38.5 -2.8 -0.9 12.8 81.3 27.6 38.5	5.2% 71.0% 33.5% 27.6 38.5 36.4 -22.4 32.5 -2.8 24.8 37.6 34.2 27.6 38.5 36.4 -2.8 -0.9 -2.2 12.8 81.3 37.3 27.6 38.5 36.4	5.2% 71.0% 33.5% 7.0% 27.6 38.5 36.4 -1.5 -22.4 32.5 -2.8 8.6 24.8 37.6 34.2 4.2 27.6 38.5 36.4 -1.5 -2.8 -0.9 -2.2 5.7 12.8 81.3 37.3 4.7 27.6 38.5 36.4 -1.5



⁽¹⁾ Prior to 1/1/2021 the Russell 1000 Growth Aggregate included returns from Zevenbergen, which moved to the Russell 3000 Growth benchmark and is now reported separately.



	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Semi-Passive Large Cap										
BLACKROCK	\$1,600,176,535	5.1%	-5.8%	4.4%	13.7%	18.7%	16.3%	15.1%	10.9%	01/1995
Semi Passive Domestic Equity Benchmark			-5.1	4.4	13.3	18.7	15.8	14.5	10.5	01/1995
Excess			-0.6	0.0	0.4	-0.1	0.5	0.5	0.4	
J.P. MORGAN	1,592,258,355	5.1	-5.1	5.8	15.0	19.9	16.2	15.1	10.8	01/1995
Semi Passive Domestic Equity Benchmark			-5.1	4.4	13.3	18.7	15.8	14.5	10.5	01/1995
Excess			0.0	1.4	1.7	1.2	0.4	0.5	0.3	
SEMI-PASSIVE DOMESTIC EQUITY AGGREGATE	3,192,434,890	10.3	-5.4	5.1	14.3	19.3	16.1	14.7	9.5	06/1996
Semi Passive Domestic Equity Benchmark			-5.1	4.4	13.3	18.7	15.8	14.5	9.4	06/1996
Excess			-0.3	0.7	1.0	0.6	0.3	0.2	0.1	





	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Semi-Passive Large Cap					
BLACKROCK	28.3%	20.7%	30.4%	-4.1%	24.6%
Semi Passive Domestic Equity Benchmark	26.5	21.0	31.4	-4.8	21.7
Excess	1.8	-0.3	-1.0	0.7	2.9
J.P. MORGAN	29.3	21.2	31.3	-5.4	21.8
Semi Passive Domestic Equity Benchmark	26.5	21.0	31.4	-4.8	21.7
Excess	2.8	0.3	-0.1	-0.6	0.1
SEMI-PASSIVE DOMESTIC EQUITY AGGREGATE	28.8	21.0	30.9	-4.9	22.5
Semi Passive Domestic Equity Benchmark	26.5	21.0	31.4	-4.8	21.7
Excess	2.3	0.0	-0.5	-0.1	0.8





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Active Large Cap Value										
BARROW HANLEY	\$371,072,349	1.2%	2.3%	10.3%	15.4%	15.6%	12.1%	12.4%	9.1%	04/2004
Russell 1000 Value			-0.7	6.1	11.7	13.0	10.3	11.7	8.5	04/2004
Excess			3.0	4.2	3.7	2.6	1.9	0.7	0.6	
LSV	362,837,601	1.2	-1.3	3.2	8.8	12.8	10.3	12.6	9.4	04/2004
Russell 1000 Value			-0.7	6.1	11.7	13.0	10.3	11.7	8.5	04/2004
Excess			-0.5	-2.9	-2.9	-0.2	-0.0	0.9	0.9	
RUSSELL 1000 VALUE	733,909,950	2.4	0.5	6.7	12.0	14.5	11.8	12.4	9.3	10/2003
AGGREGATE									9.2	10/2003
Russell 1000 Value			-0.7	6.1	11.7	13.0	10.3	11.7	0.1	
Excess			1.2	0.5	0.4	1.5	1.5	0.7		





	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Active Large Cap Value					
BARROW HANLEY	27.7%	2.4%	26.9%	-5.9%	14.6%
Russell 1000 Value	25.2	2.8	26.5	-8.3	13.7
Excess	2.5	-0.4	0.4	2.4	0.9
LSV	29.7	-1.3	26.9	-11.8	18.6
Russell 1000 Value	25.2	2.8	26.5	-8.3	13.7
Excess	4.5	-4.1	0.4	-3.6	4.9
RUSSELL 1000 VALUE AGGREGATE	28.8	1.6	27.4	-8.7	17.3
Russell 1000 Value	25.2	2.8	26.5	-8.3	13.7
Excess	3.7	-1.2	0.9	-0.4	3.7





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Active Small Cap Growth										
ARROWMARK	\$191,478,519	0.6%	-8.4%	-13.8%	-8.1%	7.8%	11.5%		13.4%	11/2016
Russell 2000 Growth			-12.6	-17.6	-14.3	9.9	10.3		12.6	11/2016
Excess			4.3	3.8	6.2	-2.1	1.2		0.8	
HOOD RIVER	254,796,320	0.8	-11.2	-8.7	-1.0	23.1	18.6		20.2	11/2016
Russell 2000 Growth			-12.6	-17.6	-14.3	9.9	10.3		12.6	11/2016
Excess			1.4	8.9	13.3	13.2	8.3		7.6	
RICE HALL JAMES	203,991,780	0.7	-11.7	-10.2	-5.7	10.7	10.5		13.6	11/2016
Russell 2000 Growth			-12.6	-17.6	-14.3	9.9	10.3		12.6	11/2016
Excess			0.9	7.4	8.7	0.8	0.1		1.0	
WELLINGTON	265,631,937	0.9	-14.0	-14.7	-12.0	10.3	10.7		13.0	11/2016
Russell 2000 Growth			-12.6	-17.6	-14.3	9.9	10.3		12.6	11/2016
Excess			-1.3	2.9	2.3	0.4	0.4		0.4	
RUSSELL 2000 GROWTH AGGREGATE	915,898,556	2.9	-11.6	-11.9	-6.8	13.1	12.6	11.0%	8.5	11/2003
Russell 2000 Growth			-12.6	-17.6	-14.3	9.9	10.3	11.2	9.2	11/2003
Excess			1.0	5.7	7.5	3.2	2.3	-0.2	-0.8	





	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2010 Colondon Between	
			2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Active Small Cap Growth					
ARROWMARK	6.1%	21.9%	20.1%	0.9%	26.2%
Russell 2000 Growth	2.8	34.6	28.5	-9.3	22.2
Excess	3.2	-12.8	-8.4	10.3	4.1
HOOD RIVER	24.2	61.7	24.3	-7.0	21.3
Russell 2000 Growth	2.8	34.6	28.5	-9.3	22.2
Excess	21.4	27.0	-4.2	2.3	-0.9
RICE HALL JAMES	15.6	23.8	18.0	-6.9	27.9
Russell 2000 Growth	2.8	34.6	28.5	-9.3	22.2
Excess	12.8	-10.8	-10.5	2.4	5.8
WELLINGTON	4.3	33.1	35.6	-11.6	22.6
Russell 2000 Growth	2.8	34.6	28.5	-9.3	22.2
Excess	1.4	-1.5	7.1	-2.3	0.4
RUSSELL 2000 GROWTH AGGREGATE	12.4	35.4	24.6	-6.2	22.0
Russell 2000 Growth	2.8	34.6	28.5	-9.3	22.2
Excess	9.5	0.8	-3.9	3.2	-0.1





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Active Small Cap Value										
GOLDMAN SACHS	\$304,535,146	1.0%	-3.2%	2.3%	5.2%	11.3%	8.2%	10.8%	9.5%	01/2004
Russell 2000 Value			-2.4	-1.2	3.3	12.7	8.6	10.5	8.4	01/2004
Excess			-0.8	3.5	1.9	-1.5	-0.3	0.3	1.1	
HOTCHKIS AND WILEY	198,586,492	0.6	9.1	15.6	21.6	16.8	10.2	12.3	9.3	01/2004
Russell 2000 Value			-2.4	-1.2	3.3	12.7	8.6	10.5	8.4	01/2004
Excess			11.5	16.7	18.3	4.1	1.6	1.8	0.8	
MARTINGALE	174,521,347	0.6	-2.7	5.8	10.9	12.6	8.1	11.6	8.3	01/2004
Russell 2000 Value			-2.4	-1.2	3.3	12.7	8.6	10.5	8.4	01/2004
Excess			-0.3	7.0	7.6	-0.2	-0.5	1.1	-0.1	
PEREGRINE	286,202,286	0.9	-1.6	2.9	6.2	13.6	9.1	10.5	10.3	07/2000
Russell 2000 Value			-2.4	-1.2	3.3	12.7	8.6	10.5	9.7	07/2000
Excess			0.8	4.1	2.9	0.8	0.5	-0.1	0.6	
RUSSELL 2000 VALUE AGGREGATE	963,845,271	3.1	-0.3	5.7	9.7	13.1	8.7	11.1	9.5	10/2003
Russell 2000 Value			-2.4	-1.2	3.3	12.7	8.6	10.5	9.2	10/2003
Excess			2.1	6.9	6.3	0.3	0.1	0.5	0.3	





	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Active Small Cap Value					
GOLDMAN SACHS	27.0%	2.4%	23.2%	-13.3%	12.6%
Russell 2000 Value	28.3	4.6	22.4	-12.9	7.8
Excess	-1.3	-2.3	0.8	-0.5	4.7
HOTCHKIS AND WILEY	36.5	-0.2	19.7	-14.4	7.9
Russell 2000 Value	28.3	4.6	22.4	-12.9	7.8
Excess	8.2	-4.8	-2.7	-1.5	0.0
MARTINGALE	41.3	-4.6	21.1	-15.0	6.9
Russell 2000 Value	28.3	4.6	22.4	-12.9	7.8
Excess	13.0	-9.2	-1.3	-2.1	-0.9
PEREGRINE	28.6	7.3	21.1	-16.1	12.5
Russell 2000 Value	28.3	4.6	22.4	-12.9	7.8
Excess	0.3	2.7	-1.3	-3.3	4.7
RUSSELL 2000 VALUE AGGREGATE	31.8	1.5	21.3	-14.7	10.2
Russell 2000 Value	28.3	4.6	22.4	-12.9	7.8
Excess	3.5	-3.1	-1.1	-1.8	2.3





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Active All Cap										
ZEVENBERGEN (1)	\$253,873,137	0.8%	-19.6%	-27.4%	-20.9%	22.6%	23.5%	17.7%	12.3%	04/1994
Zevenbergen Custom Benchmark			-9.3	1.3	12.9	25.0	21.7	17.4		04/1994
Excess			-10.3	-28.8	-33.8	-2.4	1.8	0.3		
ACTIVE RUSSELL 3000 GROWTH (2)	253,873,137	0.8	-19.6	-27.4	-20.9				-22.6	01/2021
Russell 3000 Growth TR			-9.3	1.3	12.9				11.2	01/2021
Excess			-10.3	-28.8	-33.8				-33.9	



⁽¹⁾ Effective 1/1/2021, the SBI changed the Zevenbergen Benchmark to the Russell 3000 Growth. Prior to this date it was the Russell 1000 Growth.

⁽²⁾ Prior to 1/1/2021, Zevenbergen returns were reported as part of the Russell 1000 Growth Aggregate.



	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Active All Cap					
ZEVENBERGEN (1)	-9.7%	126.2%	43.0%	2.3%	35.1%
Zevenbergen Custom Benchmark	32.3	38.5	36.4	-1.5	30.2
Excess	-42.0	87.7	6.7	3.8	4.9
ACTIVE RUSSELL 3000 GROWTH (2)	-9.7				
Russell 3000 Growth TR	25.8				
Excess	-35.6				



⁽¹⁾ Effective 1/1/2021, the SBI changed the Zevenbergen Benchmark to the Russell 3000 Growth. Prior to this date it was the Russell 1000 Growth.

⁽²⁾ Prior to 1/1/2021, Zevenbergen returns were reported as part of the Russell 1000 Growth Aggregate.



	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Total Passive Domestic Equity										
BLACKROCK RUSSELL 1000	\$23,355,344,666	75.1%	-5.2%	4.3%	13.2%	18.7%	15.8%		17.0%	11/2016
RUSSELL 1000 (DAILY)			-5.1	4.4	13.3	18.7	15.8		17.0	11/2016
Excess			-0.1	-0.1	-0.1	-0.0	-0.0		-0.0	
BLACKROCK RUSSELL 2000	196,775,527	0.6	-6.6	-8.8	-4.2	12.7			12.0	11/2018
RUSSELL 2000 (DAILY)			-7.5	-9.7	-5.8	11.7			11.1	11/2018
Excess			0.9	0.8	1.6	1.0			0.9	
BLACKROCK RUSSELL 3000 (1)	1,097,017,460	3.5	-5.3	3.5	12.3	18.5	15.6	14.4%	10.2	07/1995
Passive Manager Benchmark			-5.3	3.4	11.9	18.2	15.4	14.3	10.1	07/1995
Excess			0.0	0.1	0.4	0.3	0.2	0.1	0.1	
PASSIVE DOMESTIC EQUITY AGGREGATE (2)	24,649,137,653	79.2	-5.2	4.2	13.1	18.6	15.7	14.4	9.6	06/1996
Passive Domestic Equity Benchmark			-5.1	4.3	13.1	18.6	15.7	14.4	9.7	06/1996
Excess			-0.1	-0.1	-0.1	0.0	-0.0	-0.0	-0.1	



⁽¹⁾ The current Passive Manager Benchmark is the Russell 3000. For historical benchmark details please refer to the addendum of this report.

⁽²⁾ The current Passive Domestic Equity Benchmark is a weighted average of the Russell 1000, Russell 2000 and Russell 3000.

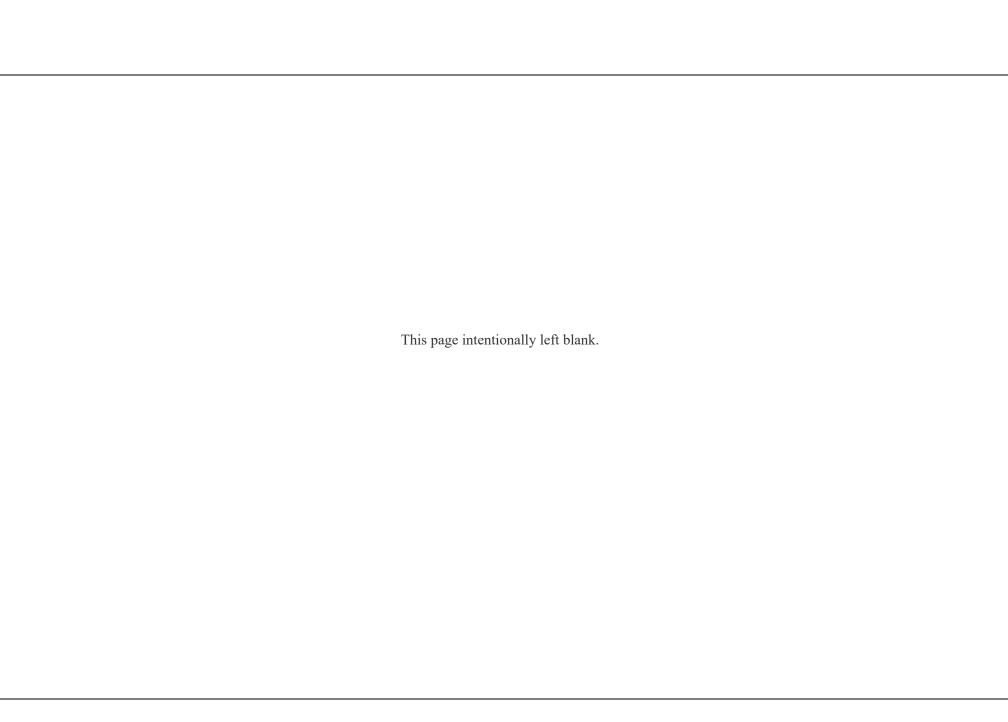


	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Total Passive Domestic Equity					
BLACKROCK RUSSELL 1000	26.5%	20.9%	31.4%	-4.8%	21.7%
RUSSELL 1000 (DAILY)	26.5	21.0	31.4	-4.8	21.7
Excess	0.1	-0.0	0.0	-0.0	-0.0
BLACKROCK RUSSELL 2000	16.0	20.8	25.2		
RUSSELL 2000 (DAILY)	14.8	20.0	25.5		
Excess	1.2	0.8	-0.3		
BLACKROCK RUSSELL 3000 (1)	26.2	21.2	31.1	-5.2	21.1
Passive Manager Benchmark	25.7	20.9	31.0	-5.2	21.1
Excess	0.5	0.3	0.0	-0.0	0.0
PASSIVE DOMESTIC EQUITY AGGREGATE (2)	26.5	20.8	31.3	-5.0	21.3
Passive Domestic Equity Benchmark	26.4	20.8	31.3	-5.0	21.5
Excess	0.1	0.0	0.0	-0.0	-0.2



⁽¹⁾ The current Passive Manager Benchmark is the Russell 3000. For historical benchmark details please refer to the addendum of this report.

⁽²⁾ The current Passive Domestic Equity Benchmark is a weighted average of the Russell 1000, Russell 2000 and Russell 3000.





International Equity March 31, 2022





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Total International Equity										
DEVELOPED MARKETS (1)	\$9,445,683,471	69.8%	-5.1%	-2.6%	2.9%	9.2%	7.7%	7.0%	5.5%	01/1997
BENCHMARK DM			-4.8	-2.5	3.0	8.6	7.1	6.3	2.6	01/1997
Excess			-0.2	-0.1	-0.1	0.6	0.6	0.7	3.0	
EMERGING MARKETS (2)	3,479,364,833	25.7	-8.3	-16.3	-12.6	5.3	6.0	3.4	5.7	11/1996
BENCHMARK EM			-7.0	-15.6	-11.4	4.9	6.0	3.4	6.0	11/1996
Excess			-1.3	-0.7	-1.2	0.3	0.0	0.1	-0.3	
ACWI EX-US AGGREGATE	391,481,899	2.9	-2.5	-1.9	5.8				7.9	01/2021
MSCI AC WORLD ex US (NET) - DAILY			-5.4	-6.6	-1.5				1.6	01/2021
Excess			2.9	4.7	7.2				6.3	
CHINA ONLY AGGREGATE	165,717,629	1.2	-18.7	-20.0	-15.7				-17.3	01/2021
MSCI China A			-14.5	-15.7	-8.0				-9.6	01/2021
Excess			-4.2	-4.3	-7.7				-7.7	
TRANSITION AGGREGATE INTERNATIONAL EQUITY (3)	744,681	0.0								
TOTAL INTERNATIONAL EQUITY (4)	13,539,456,932	100.0	-5.7	-6.2	-1.4	8.2	7.3	6.2	6.5	10/1992
International Equity Benchmark			-5.4	-6.6	-1.5	7.5	6.7	5.5	6.1	10/1992
Excess			-0.2	0.4	0.1	0.8	0.5	0.6	0.5	

⁽¹⁾ The current benchmak for Developed Markets, Benchmark DM, is the Standard (large + mid) MSCI World ex USA (net).



⁽²⁾ The current benchmark for Emerging Markets, Benchmark EM, is the Standard (large + mid) MSCI Emerging Markets Free (net).

⁽³⁾ The Transition Aggregate International Equity contains International Equity securities that are being transitioned to a different manager.

⁽⁴⁾ The current International Equity Benchmark is the MSCI ACWI ex USA (net). Does not includes impact of currency overlay on the passive EAFE portfolio from 12/1/95-10/31/00. This impact is included in the return for the Combined Funds portion of the International Equity portfolio.



	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Total International Equity					
DEVELOPED MARKETS (1)	12.9%	9.1%	23.3%	-14.2%	24.9%
BENCHMARK DM	12.6	7.6	22.5	-14.1	24.2
Excess	0.3	1.5	0.8	-0.1	0.7
EMERGING MARKETS (2)	-1.5	17.9	20.3	-15.4	37.7
BENCHMARK EM	-2.5	18.3	18.4	-14.6	37.3
Excess	1.1	-0.4	1.9	-0.8	0.4
ACWI EX-US AGGREGATE	12.8				
MSCI AC WORLD ex US (NET) - DAILY	7.8				
Excess	4.9				
CHINA ONLY AGGREGATE	-2.9				
MSCI China A	3.2				
Excess	-6.1				

TRANSITION AGGREGATE INTERNATIONAL EQUITY (3)

TOTAL INTERNATIONAL EQUITY (4)	8.9	11.4	22.4	-14.5	27.6
International Equity Benchmark	7.8	10.5	21.5	-14.2	27.2
Excess	1.1	0.8	0.9	-0.3	0.4

- (1) The current benchmak for Developed Markets, Benchmark DM, is the Standard (large + mid) MSCI World ex USA (net).
- (2) The current benchmark for Emerging Markets, Benchmark EM, is the Standard (large + mid) MSCI Emerging Markets Free (net).
- (3) The Transition Aggregate International Equity contains International Equity securities that are being transitioned to a different manager.
- (4) The current International Equity Benchmark is the MSCI ACWI ex USA (net). Does not includes impact of currency overlay on the passive EAFE portfolio from 12/1/95-10/31/00. This impact is included in the return for the Combined Funds portion of the International Equity portfolio.





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	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Active Developed Markets										
ACADIAN	\$386,362,310	2.9%	-3.5%	-2.6%	3.7%	9.9%	9.4%	9.7%	7.0%	07/2005
BENCHMARK DM			-4.8	-2.5	3.0	8.6	7.1	6.3	5.3	07/2005
Excess			1.3	-0.1	0.7	1.4	2.2	3.4	1.7	
COLUMBIA	394,861,031	2.9	-8.1	-4.1	1.1	11.3	10.5	8.1	3.9	03/2000
BENCHMARK DM			-4.8	-2.5	3.0	8.6	7.1	6.3	3.9	03/2000
Excess			-3.3	-1.6	-1.9	2.8	3.4	1.8	-0.0	
FIDELITY	394,913,634	2.9	-6.9	-3.8	1.4	11.3	9.3	8.0	7.0	07/2005
BENCHMARK DM			-4.8	-2.5	3.0	8.6	7.1	6.3	5.3	07/2005
Excess			-2.1	-1.3	-1.7	2.8	2.2	1.8	1.7	
JP MORGAN	342,102,274	2.5	-9.6	-5.1	1.0	9.9	8.2	6.7	5.7	07/2005
BENCHMARK DM			-4.8	-2.5	3.0	8.6	7.1	6.3	5.3	07/2005
Excess			-4.7	-2.6	-2.1	1.4	1.1	0.4	0.3	
MARATHON	377,458,102	2.8	-4.0	-2.9	2.1	9.4	7.6	7.8	8.0	11/1993
BENCHMARK DM			-4.8	-2.5	3.0	8.6	7.1	6.3	5.3	11/1993
Excess			0.8	-0.4	-0.9	0.9	0.5	1.5	2.7	
MCKINLEY	294 400 250	2.1	-7.6	-2.5	1.3	10.5	0.0	7.4	5.4	07/2005
BENCHMARK DM	284,109,259	2.1		-2.5 -2.5	3.0	8.6	8.8 7.1	7.4		07/2005
Excess			-4.8 -2.8	-2.5 -0.1	3.0 -1.7	8.6 1.9	1.6	6.3 1.1	5.3 0.1	07/2005
LAUGOO			-2.0	-0.1	-1.7	1.9	1.0	1.1	0.1	
AQR CAPITAL MANAGEMENT	358,610,515	2.6	-4.3	-5.4	-2.8	5.9	4.8	6.0	5.1	07/2005
BENCHMARK DM			-4.8	-2.5	3.0	8.6	7.1	6.3	5.3	07/2005
Excess			0.5	-3.0	-5.8	-2.7	-2.3	-0.2	-0.2	





	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Active Developed Markets					
ACADIAN	13.6%	11.7%	19.1%	-13.5%	37.0%
BENCHMARK DM	12.6	7.6	22.5	-14.1	24.2
Excess	0.9	4.2	-3.4	0.6	12.8
COLUMBIA	14.2	15.0	28.9	-14.9	32.7
BENCHMARK DM	12.6	7.6	22.5	-14.1	24.2
Excess	1.6	7.4	6.4	-0.8	8.5
FIDELITY	13.0	15.4	27.1	-14.6	25.9
BENCHMARK DM	12.6	7.6	22.5	-14.1	24.2
Excess	0.4	7.8	4.6	-0.5	1.7
JP MORGAN	13.3	14.2	28.5	-17.3	28.3
BENCHMARK DM	12.6	7.6	22.5	-14.1	24.2
Excess	0.7	6.6	6.0	-3.3	4.1
MARATHON	12.8	7.6	23.5	-13.4	23.1
BENCHMARK DM	12.6	7.6	22.5	-14.1	24.2
Excess	0.2	0.1	1.0	0.7	-1.1
MCKINLEY	11.6	16.4	25.6	-15.9	28.5
BENCHMARK DM	12.6	7.6	22.5	-14.1	24.2
Excess	-1.0	8.8	3.1	-1.9	4.3
AQR CAPITAL MANAGEMENT	8.1	6.5	20.8	-18.2	25.1
BENCHMARK DM	12.6	7.6	22.5	-14.1	24.2
Excess	-4.5	-1.1	-1.7	-4.1	0.9





nding Market Value	Portfolio Weight	1 Qtr	Fiscal YTD	1 Year	2 ٧	5	40.1/		
				<u>i rear</u>	3 Year	5 Year	10 Year	Since Inception	Inception Date
\$2,538,417,126	18.7%	-6.3%	-3.8%	1.1%	9.7%	8.1%	7.5%	5.8%	06/1996
		-4.8%	-2.5%	3.0%	8.6%	7.1%	6.3%	2.5%	06/1996
		-1.4%	-1.3%	-1.9%	1.2%	1.0%	1.2%	3.3%	
\$6,907,266,345	51.0%	-4.6%	-2.2%	3.6%	9.0%	7.6%	6.7%	6.4%	10/1992
		-4.8%	-2.5%	3.0%	8.6%	7.1%	6.3%	6.0%	10/1992
		0.2%	0.3%	0.6%	0.5%	0.4%	0.4%	0.3%	
\$56,464,420	0.4%	0.7%	1.2%	0.7%					
\$6,963,730,765	51.4%	-3.9%	-1.0%	4.3%	9.5%	7.8%	6.7%	5.4%	06/1996
		-4.8%	-2.5%	3.0%	8.6%	7.1%	6.3%	2.5%	06/1996
		0.9%	1.4%	1.3%	1.0%	0.7%	0.5%	2.9%	
\$9,445,683,471	69.8%	-5.1%	-2.6%	2.9%	9.2%	7.7%	7.0%	5.5%	01/1997
		-4.8%	-2.5%	3.0%	8.6%	7.1%	6.3%	2.6%	01/1997
		-0.2%	-0.1%	-0.1%	0.6%	0.6%	0.7%	3.0%	
\$	\$56,464,420 66,963,730,765	\$56,464,420 0.4% 66,963,730,765 51.4%	-1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4% -1.4%	-1.4% -1.3% -1.4% -1.3% -1.4% -1.3% -1.4% -1.3% -1.4% -2.2% -4.8% -2.5% -4.8% -2.5% -2.5% -2.5% -2.5% -2.5% -2.5% -2.5% -2.5% -2.5% -2.5% -2.5% -2.5% -2.5% -2.5% -2.5% -2.5% -2.5% -2.5% -2.5% -2.5% -2.5% -2.5% -2.5% -2.5%	-1.4% -1.3% -1.9% -1.4% -1.3% -1.9% -1.4% -2.2% 3.6% -4.8% -2.5% 3.0% -4.8% -2.5% 0.3% 0.6% -4.8% -2.5% 0.3% 0.6% -4.8% -2.5% 3.0% -4.8% -2.5% 3.0% -4.8% -2.5% 3.0% -4.8% -2.5% 3.0% -4.8% -2.5% 3.0% -4.8% -2.5% 3.0% -4.8% -2.5% 3.0% -4.8% -2.5% 3.0% -4.8% -2.5% 3.0% -4.8% -2.5% 3.0% -4.8% -2.5% 3.0% -4.8% -2.5% 3.0%	\$6,907,266,345 \$51.0% \$-4.6% \$-2.2% \$3.6% \$9.0% \$1.2% \$1.0% \$1.2% \$1.0% \$1.2% \$1.0% \$1.2% \$1.0% \$1.2% \$1.0% \$1.2% \$1.0% \$1.2% \$1.0% \$1.2% \$1.0% \$1.2% \$1.0% \$1.2% \$1.0% \$1.2% \$1.0% \$1.0% \$1.2% \$1.0% \$1.0% \$1.2% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0% \$1.0%	\$6,907,266,345 \$51.0% \$-4.6% \$-2.2% \$3.6% \$9.0% \$7.6% \$-4.8% \$-2.5% \$3.0% \$8.6% \$7.1% \$0.2% \$0.3% \$0.6% \$0.5% \$0.4% \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	1.4% 1.3% 1.9% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.2% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0	1-1.4% 1-1.3% 1-1.9% 1.2% 1.0% 1.2% 3.3% 16,907,266,345 51.0% 1-4.6% 1-2.2% 3.6% 9.0% 7.6% 6.7% 6.4% 1-4.8% 1-2.5% 3.0% 8.6% 7.1% 6.3% 6.0% 10.2% 10.3% 10.6% 10.5% 10.4% 10.4% 10.3% 16,963,730,765 51.4% 1-3.9% 1-1.0% 1.2% 10.7% 1-2% 10.9% 1.4% 11.3% 11.0% 10.7% 10.5% 2.5% 10.9% 1.4% 11.3% 11.0% 10.7% 10.5% 2.9% 10.9445,683,471 69.8% 1-5.1% 1-2.6% 2.9% 9.2% 7.7% 7.0% 5.5% 1-4.8% 1-2.5% 3.0% 8.6% 7.1% 6.3% 2.6%



⁽¹⁾ Includes the historical returns of AQR and terminated managers previously classified as "Semi-Passive Developed Markets"

⁽²⁾ Return for Record Currency is the difference between the DM Passive Account with Currency Management and without.



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	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Total Developed Markets					
Active Developed Markets Aggregate (1)	12.5%	12.2%	24.4%	-15.1%	26.8%
BENCHMARK DM	12.6%	7.6%	22.5%	-14.1%	24.2%
Excess	-0.1%	4.6%	1.9%	-1.0%	2.6%
SSGA DEVELOPED MARKETS PASSIVE	13.0%	8.2%	23.0%	-13.9%	24.7%
BENCHMARK DM	12.6%	7.6%	22.5%	-14.1%	24.2%
Excess	0.4%	0.6%	0.5%	0.2%	0.5%
DM PASSIVE EQUITY WITH CURRENCY MGMT	13.9%	8.0%	23.0%	-13.9%	23.8%
BENCHMARK DM	12.6%	7.6%	22.5%	-14.1%	24.2%
Excess	1.3%	0.4%	0.5%	0.2%	-0.4%
DEVELOPED MARKETS TOTAL	12.9%	9.1%	23.3%	-14.2%	24.9%
BENCHMARK DM	12.6%	7.6%	22.5%	-14.1%	24.2%
Excess	0.3%	1.5%	0.8%	-0.1%	0.7%



⁽¹⁾ Includes the historical returns of AQR and terminated managers previously classified as "Semi-Passive Developed Markets"



	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Active Emerging Markets										
MARTIN CURRIE	\$422,580,982	3.1%	-11.8%	-20.9%	-16.8%	6.7%	8.4%		8.4%	04/2017
BENCHMARK EM			-7.0	-15.6	-11.4	4.9	6.0		6.0	04/2017
Excess			-4.8	-5.3	-5.4	1.8	2.5		2.5	
MACQUARIE	395,537,143	2.9	-11.1	-18.9	-15.8	6.4	7.2		7.2	04/2017
BENCHMARK EM	,		-7.0	-15.6	-11.4	4.9	6.0		6.0	04/2017
Excess			-4.2	-3.3	-4.4	1.5	1.3		1.3	
MORGAN STANLEY	499,225,462	3.7	-11.4	-15.4	-9.9	5.9	5.5	4.0%	8.7	01/2001
BENCHMARK EM			-7.0	-15.6	-11.4	4.9	6.0	3.4	8.5	01/2001
Excess			-4.4	0.2	1.4	1.0	-0.4	0.6	0.2	
NEUBERGER BERMAN	359,387,321	2.7	-10.8	-19.9	-18.1	1.2	3.8		3.8	04/2017
BENCHMARK EM			-7.0	-15.6	-11.4	4.9	6.0		6.0	04/2017
Excess			-3.9	-4.3	-6.7	-3.8	-2.2		-2.2	
PZENA	374,972,705	2.8	1.4	-4.3	-1.1	8.1	6.9		6.9	04/2017
BENCHMARK EM	314,312,103	2.0	-7.0	- 1 5.6	-11.4	4.9	6.0		6.0	04/2017
			8.4	11.4	10.3	3.1	0.9		0.9	04/2017
Excess			0.4	11.4	10.3	3.1	0.9		0.9	
ROCK CREEK	400,967,662	3.0	-6.3	-17.1	-13.7	6.5	5.4		5.4	04/2017
BENCHMARK EM			-7.0	-15.6	-11.4	4.9	6.0		6.0	04/2017
Excess			0.7	-1.5	-2.3	1.6	-0.6		-0.6	





	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Active Emerging Markets					
MARTIN CURRIE	-3.5%	26.5%	27.3%	-16.6%	
BENCHMARK EM	-2.5	18.3	18.4	-14.6	
Excess	-1.0	8.2	8.8	-2.0	
MACQUARIE	-2.2	24.2	23.2	-13.3	
BENCHMARK EM	-2.5	18.3	18.4	-14.6	
Excess	0.3	5.9	4.7	1.3	
MORGAN STANLEY	3.5	15.7	20.4	-16.7	37.9%
BENCHMARK EM	-2.5	18.3	18.4	-14.6	37.3
Excess	6.0	-2.6	1.9	-2.2	0.6
NEUBERGER BERMAN	-5.6	14.2	19.7	-17.1	
BENCHMARK EM	-2.5	18.3	18.4	-14.6	
Excess	-3.1	-4.1	1.3	-2.6	
PZENA	9.3	7.7	13.4	-10.8	
BENCHMARK EM	-2.5	18.3	18.4	-14.6	
Excess	11.8	-10.6	-5.1	3.8	
ROCK CREEK	-5.2	22.0	22.3	-17.6	
BENCHMARK EM	-2.5	18.3	18.4	-14.6	
Excess	-2.7	3.7	3.9	-3.1	





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Total Emerging Markets										
ACTIVE EMERGING MARKETS AGGREGATE	\$2,452,671,275	18.1%	-8.8%	-16.5%	-12.8%	5.5%	6.0%	3.2%	4.4%	01/2012
BENCHMARK EM			-7.0	-15.6	-11.4	4.9	6.0	3.4	4.6	01/2012
Excess			-1.8	-0.8	-1.5	0.6	0.1	-0.1	-0.2	
SSGA EMERGING MARKETS PASSIVE	1,026,693,559	7.6	-7.2	-16.1	-11.9	4.6	5.8	3.4	4.6	01/2012
BENCHMARK EM			-7.0	-15.6	-11.4	4.9	6.0	3.4	4.6	01/2012
Excess			-0.2	-0.4	-0.6	-0.3	-0.1	0.0	-0.0	
EMERGING MARKETS TOTAL	3,479,364,833	25.7	-8.3	-16.3	-12.6	5.3	6.0	3.4	5.7	11/1996
BENCHMARK EM			-7.0	-15.6	-11.4	4.9	6.0	3.4	6.0	11/1996
Excess			-1.3	-0.7	-1.2	0.3	0.0	0.1	-0.3	



	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Total Emerging Markets					
ACTIVE EMERGING MARKETS AGGREGATE	-0.9%	17.6%	21.4%	-15.6%	37.2%
BENCHMARK EM	-2.5	18.3	18.4	-14.6	37.3
Excess	1.6	-0.7	3.0	-1.0	-0.1
SSGA EMERGING MARKETS PASSICE	-2.9	18.3	18.1	-14.7	37.4
BENCHMARK EM	-2.5	18.3	18.4	-14.6	37.3
Excess	-0.3	0.0	-0.3	-0.1	0.1
EMERGING MARKETS TOTAL	-1.5	17.9	20.3	-15.4	37.7
BENCHMARK EM	-2.5	18.3	18.4	-14.6	37.3
Excess	1.1	-0.4	1.9	-0.8	0.4



	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Active ACWI ex-US										
EARNEST PARTNERS ACWI EX US	\$391,481,899	2.9%	-2.5%	-1.9%	5.8%				7.9%	01/2021
MSCI AC WORLD ex US (NET) - DAILY			-5.4%	-6.6%	-1.5%				1.6%	01/2021
Excess			2.9%	4.7%	7.2%				6.3%	
TOTAL ACWI EX-US AGGREGATE	\$391,481,899	2.9%	-2.5%	-1.9%	5.8%				7.9%	01/2021
MSCI AC WORLD ex US (NET) - DAILY			-5.4%	-6.6%	-1.5%				1.6%	01/2021
Excess			2.9%	4.7%	7.2%				6.3%	



	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Active ACWI ex-US					
EARNEST PARTNERS ACWI EX US	12.8%				
MSCI AC WORLD ex US (NET) - DAILY	7.8				
Excess	4.9				
TOTAL ACWI EX-US AGGREGATE	12.8				
MSCI AC WORLD ex US (NET) - DAILY	7.8				
Excess	4.9				

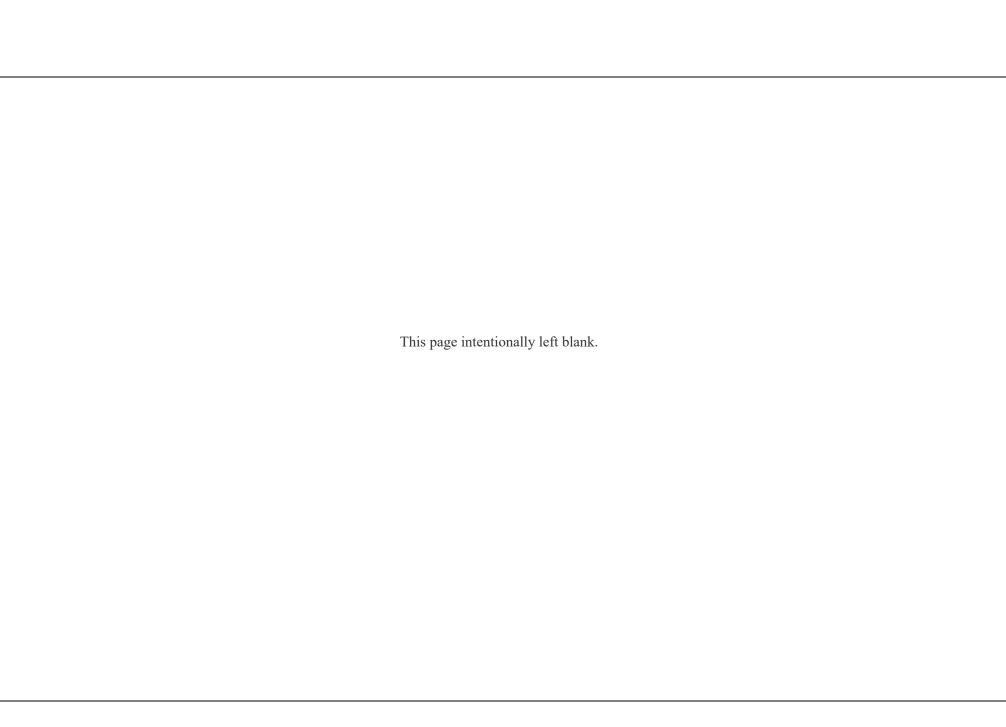


	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
China Only Managers										
EARNEST PARTNERS CHINA	\$165,717,629	1.2%	-18.7%	-20.0%	-15.7%				-17.3%	01/2021
MSCI China A			-14.5	-15.7	-8.0				-9.6	01/2021
Excess			-4.2	-4.3	-7.7				-7.7	
CHINA ONLY AGGREGATE	165,717,629	1.2	-18.7	-20.0	-15.7				-17.3	01/2021
MSCI China A			-14.5	-15.7	-8.0				-9.6	01/2021
Excess			-4.2	-4.3	-7.7				-7.7	





	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
China Only Managers					
EARNEST PARTNERS CHINA	-2.9%				
MSCI China A	3.2				
Excess	-6.1				
CHINA ONLY AGGREGATE	-2.9				
MSCI China A	3.2				
Excess	-6.1				





Global Equity March 31, 2022



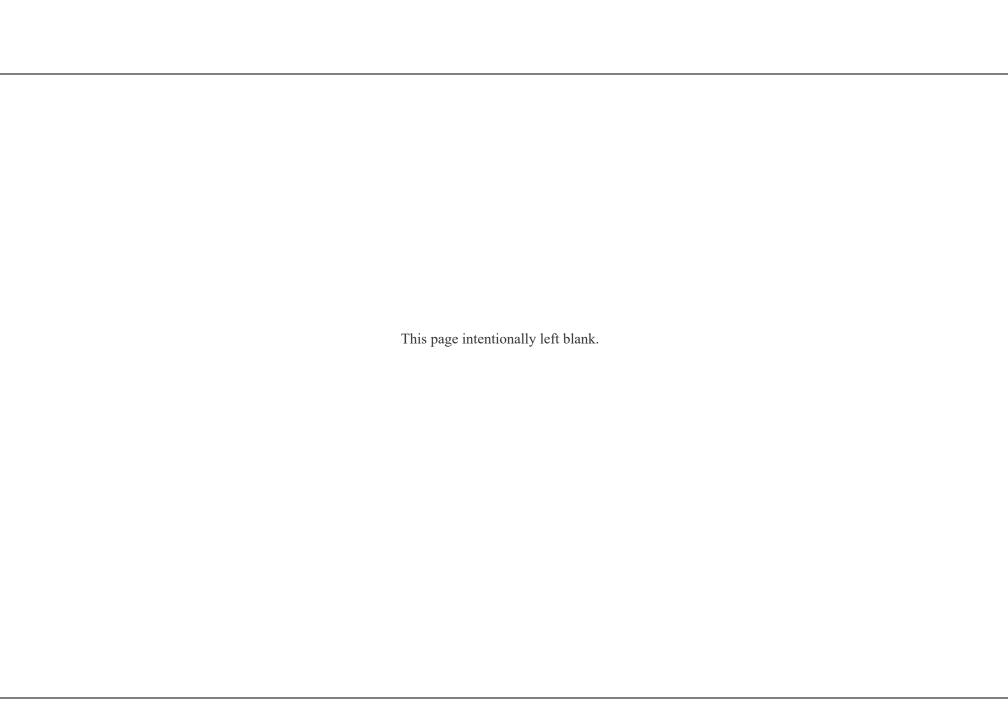


	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Global Equity Managers										
ARIEL INVESTMENTS	\$390,316,925	38.3%	1.1%	3.4%	9.0%				10.6%	01/2021
MSCI AC WORLD NET USD DAILY			-5.4	-0.1	7.3				9.7	01/2021
Excess			6.5	3.5	1.7				0.9	
BAILLIE GIFFORD	253,888,417	24.9	-22.0	-28.2	-17.9				-16.1	01/2021
MSCI AC WORLD NET USD DAILY			-5.4	-0.1	7.3				9.7	01/2021
Excess			-16.7	-28.1	-25.2				-25.8	
MARTIN CURRIE INVESTMENTS - GLOBAL EQ	374,412,825	36.8	-15.6	-14.8	-3.9				-3.9	01/2021
MSCI AC WORLD NET USD DAILY			-5.4	-0.1	7.3				9.7	01/2021
Excess			-10.2	-14.6	-11.2				-13.5	
GLOBAL EQUITY	1,018,618,168	100.0	-11.8	-12.9	-3.6				-2.7	01/2021
MSCI AC WORLD NET USD DAILY			-5.4	-0.1	7.3				9.7	01/2021
Excess			-6.5	-12.8	-10.9				-12.3	





	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Global Equity Managers					
ARIEL INVESTMENTS	12.1%				
MSCI AC WORLD NET USD DAILY	18.5				
Excess	-6.5				
BAILLIE GIFFORD	3.1				
MSCI AC WORLD NET USD DAILY	18.5				
Excess	-15.5				
MARTIN CURRIE INVESTMENTS - GLOBAL EQ	12.8				
MSCI AC WORLD NET USD DAILY	18.5				
Excess	-5.8				
GLOBAL EQUITY	9.6				
MSCI AC WORLD NET USD DAILY	18.5				
Excess	-8.9				





Core/Core Plus Bonds March 31, 2022





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Bonds										
CORE (1)	\$1,895,581,596	40.2%	-5.7%	-5.7%	-3.8%				-3.4%	11/2020
Bloomberg U.S. Aggregate			-5.9	-5.9	-4.2				-4.5	11/2020
Excess			0.3	0.2	0.4				1.1	
CORE PLUS (1)	2,819,074,878	59.8	-7.0	-6.9	-4.9				-4.2	11/2020
Bloomberg U.S. Aggregate			-5.9	-5.9	-4.2				-4.5	11/2020
Excess			-1.0	-1.0	-0.7				0.4	
TRANSITION AGGREGATE CORE BONDS (2)	19,062	0.0								
TOTAL CORE/CORE PLUS BONDS (3)	4,714,675,536	100.0	-6.5	-6.4	-4.4	2.5%	2.8%	2.9%	7.1	07/1984
Bloomberg U.S. Aggregate			-5.9	-5.9	-4.2	1.7	2.1	2.2	6.7	07/1984
Excess			-0.5	-0.5	-0.3	0.8	0.7	0.7	0.4	

Note: All aggregates include the performance of terminated managers. Inception refers to the date of retention by the SBI.



⁽¹⁾ Prior to 12/1/2020 the Core and Core Plus managers were categorized as Active or Semi-Passive. For historical performance of each manager, see the following pages in this report. For information on the historical performance of the previous groupings refer to the 9/30/2020 Comprehensive Performance Report.

⁽²⁾ The Transition Aggregate Core Bonds includes core bonds securities that are being transition to a different manager.

⁽³⁾ The current Core Bonds Benchmark is the Bloomberg U.S. Aggregate calculated daily. For historical benchmark details please refer to the addendum of this report.



	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Bonds					
CORE (1)	-1.0%				
Bloomberg U.S. Aggregate	-1.5				
Excess	0.5				
CORE PLUS (1)	-1.1				
Bloomberg U.S. Aggregate	-1.5				
Excess	0.4				
TRANSITION AGGREGATE CORE BONDS (2)					

TRANSITION AGGREGATE	
CORE BONDS (2)	

TOTAL CORE/CORE PLUS BONDS (3)	-1.1	9.7%	9.7%	-0.0%	4.2%
Bloomberg U.S. Aggregate	-1.5	7.5	8.7	0.0	3.5
Excess	0.5	2.2	1.0	-0.1	0.7

Note: All aggregates include the performance of terminated managers. Inception refers to the date of retention by the SBI.



⁽¹⁾ Prior to 12/1/2020 the Core and Core Plus managers were categorized as Active or Semi-Passive. For historical performance of each manager, see the following pages in this report. For information on the historical performance of the previous groupings refer to the 9/30/2020 Comprehensive Performance Report.

⁽²⁾ The Transition Aggregate Core Bonds includes core bonds securities that are being transition to a different manager.

⁽³⁾ The current Core Bonds Benchmark is the Bloomberg U.S. Aggregate calculated daily. For historical benchmark details please refer to the addendum of this report.



	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Active Core										
DODGE & COX	\$1,006,197,717	21.3%	-5.4%	-5.5%	-3.6%	2.8%	3.0%	3.3%	5.5%	02/2000
Bloomberg U.S. Aggregate			-5.9	-5.9	-4.2	1.7	2.1	2.2	4.5	02/2000
Excess			0.5	0.4	0.5	1.1	0.9	1.1	1.0	
BLACKROCK	889,383,879	18.9	-5.9	-5.8	-4.0	2.1	2.4	2.5	4.8	04/1996
Bloomberg U.S. Aggregate			-5.9	-5.9	-4.2	1.7	2.1	2.2	4.7	04/1996
Excess			0.0	0.0	0.2	0.4	0.3	0.3	0.1	
CORE (1)	1,895,581,596	40.2	-5.7	-5.7	-3.8				-3.4	11/2020
Bloomberg U.S. Aggregate			-5.9	-5.9	-4.2				-4.5	11/2020
Excess			0.3	0.2	0.4				1.1	



⁽¹⁾ Prior to 12/1/2020 the Core managers were categorized as Active or Semi-Passive. For information on the historical performance of the previous groupings refer to the 9/30/2020 Comprehensive Performance Report.



	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Active Core					
DODGE & COX	-0.7%	9.4%	9.6%	-0.0%	4.2%
Bloomberg U.S. Aggregate	-1.5	7.5	8.7	0.0	3.5
Excess	0.8	1.8	0.9	-0.1	0.7
BLACKROCK	-1.3	8.3	9.3	-0.1	3.7
Bloomberg U.S. Aggregate	-1.5	7.5	8.7	0.0	3.5
Excess	0.2	0.8	0.6	-0.2	0.1
CORE	-1.0				
Bloomberg U.S. Aggregate	-1.5				
Excess	0.5				



	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Core Plus Bonds										
GOLDMAN SACHS	\$847,138,398	18.0%	-6.0%	-5.7%	-3.6%	2.3%	2.6%	2.7%	5.1%	07/1993
Bloomberg U.S. Aggregate			-5.9	-5.9	-4.2	1.7	2.1	2.2	4.8	07/1993
Excess			-0.1	0.2	0.5	0.6	0.5	0.4	0.4	
NEUBERGER	933,890,039	19.8	-5.8	-5.6	-3.7	2.9	2.9	2.7	6.0	07/1988
Bloomberg U.S. Aggregate			-5.9	-5.9	-4.2	1.7	2.1	2.2	5.7	07/1988
Excess			0.1	0.3	0.5	1.2	0.7	0.5	0.3	
WESTERN	1,038,046,441	22.0	-8.8	-8.9	-6.9	2.3	2.9	3.3	7.8	07/1984
Bloomberg U.S. Aggregate			-5.9	-5.9	-4.2	1.7	2.1	2.2	6.7	07/1984
Excess			-2.8	-3.0	-2.7	0.6	0.8	1.1	1.1	
CORE PLUS (1)	2,819,074,878	59.8	-7.0	-6.9	-4.9				-4.2	11/2020
Bloomberg U.S. Aggregate			-5.9	-5.9	-4.2				-4.5	11/2020
Excess			-1.0	-1.0	-0.7				0.4	

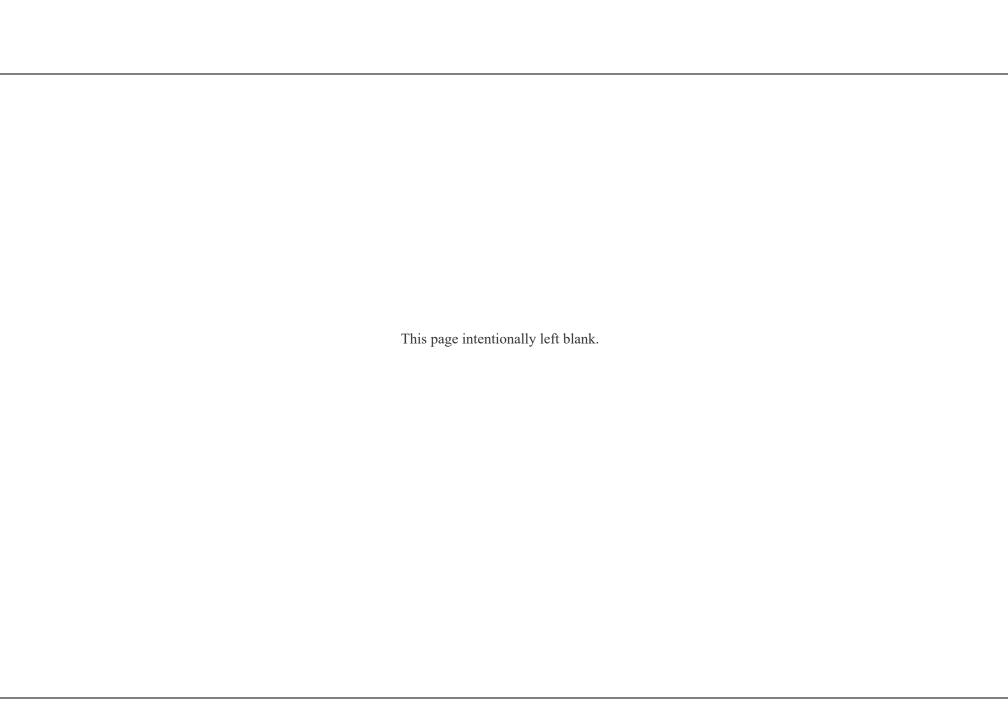


⁽¹⁾ Prior to 12/1/2020 the Core Plus managers were categorized as Active or Semi-Passive. For information on the historical performance of the previous groupings refer to the 9/30/2020 Comprehensive Performance Report.



	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Core Plus Bonds					
GOLDMAN SACHS	-1.5%	9.0%	9.6%	-0.0%	3.9%
Bloomberg U.S. Aggregate	-1.5	7.5	8.7	0.0	3.5
Excess	0.0	1.5	0.9	-0.0	0.4
NEUBERGER	-0.6	9.9	9.0	-0.1	3.6
Bloomberg U.S. Aggregate	-1.5	7.5	8.7	0.0	3.5
Excess	1.0	2.4	0.3	-0.1	0.0
WESTERN	-1.3	10.9	11.1	-0.2	5.6
Bloomberg U.S. Aggregate	-1.5	7.5	8.7	0.0	3.5
Excess	0.3	3.4	2.4	-0.3	2.1
CORE PLUS	-1.1				
Bloomberg U.S. Aggregate	-1.5				
Excess	0.4				







Return Seeking Bonds March 31, 2022





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Return Seeking Bonds Managers										
COLUMBIA CREDIT PLUS	\$877,501,860	22.9%	-6.3%	-6.3%	-4.1%				-3.2%	12/2020
Credit Plus Benchmark			-6.5	-6.3	-4.0				-4.8	12/2020
Excess			0.2	-0.0	-0.1				1.7	
PIMCO CREDIT PLUS	765,697,106	20.0	-6.3	-5.8	-3.4				-3.6	12/2020
Credit Plus Benchmark			-6.5	-6.3	-4.0				-4.8	12/2020
Excess			0.2	0.4	0.5				1.2	
CREDIT PLUS	1,643,198,966	43.0	-6.3	-6.1	-3.8				-3.4	12/2020
Credit Plus Benchmark			-6.5	-6.3	-4.0				-4.8	12/2020
Excess			0.2	0.2	0.2				1.5	
BLACKROCK OPPORTUNISTIC	490,377,478	12.8	-3.0	-2.9	-2.0				-1.5	12/2020
ICE BofA US 3-Month Treasury Bill			0.0	0.1	0.1				0.1	12/2020
Excess			-3.0	-3.0	-2.1				-1.6	
ASHMORE EMERGING MARKET	249,525,609	6.5	-8.3	-15.9	-12.3				-14.3	01/2021
JPM JEMB Sovereign-only 50-50			-8.2	-11.3	-8.0				-10.7	01/2021
Excess			-0.0	-4.6	-4.4				-3.6	
TCW SECURITIZED CREDIT	300,306,815	7.9	-0.7	0.1					0.1	07/2021
ICE BofA US 3-Month Treasury Bill			0.0	0.1					0.1	07/2021
Excess			-0.7	0.1					0.1	





	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Return Seeking Bonds Managers					
COLUMBIA CREDIT PLUS	1.1%				
Credit Plus Benchmark	0.0				
Excess	1.1				
PIMCO CREDIT PLUS	0.8				
Credit Plus Benchmark	0.0				
Excess	0.7				
CREDIT PLUS	0.9				
Credit Plus Benchmark	0.0				
Excess	0.9				
BLACKROCK OPPORTUNISTIC	0.3				
ICE BofA US 3-Month Treasury Bill	0.0				
Excess	0.2				
ASHMORE EMERGING MARKET	-10.1				
JPM JEMB Sovereign-only 50-50	-5.3				
Excess	-4.8				
TCW SECURITIZED CREDIT					
ICE BofA US 3-Month Treasury Bill					
Excess					



	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Return Seeking Bonds Managers										
PAYDEN RYGEL	\$294,229,132	7.7%	-4.6%	-4.2%	-1.4%				-1.7%	01/2021
Multi-Asset Credit Benchmark			-5.0	-4.2	-1.6				-1.9	01/2021
Excess			0.4	0.0	0.3				0.2	
PGIM	292,374,374	7.6	-5.9	-4.0	-1.2				-2.4	01/2021
Multi-Asset Credit Benchmark			-5.0	-4.2	-1.6				-1.9	01/2021
Excess			-1.0	0.2	0.4				-0.4	
MULTI-ASSET CREDIT	586,603,506	15.3	-5.3	-4.1	-1.3				-2.0	01/2021
Multi-Asset Credit Benchmark			-5.0	-4.2	-1.6				-1.9	01/2021
Excess			-0.3	0.1	0.3				-0.1	
KKR	302,319,631	7.9	-4.1	-2.3	0.2				0.3	01/2021
ICE BofA US Cash Pay HY Constrained			-4.5	-2.9	-0.3				0.4	01/2021
Excess			0.4	0.7	0.5				-0.1	
OAKTREE	252,814,888	6.6	-3.9	-2.3	0.2				0.3	01/2021
ICE BofA US Cash Pay HY Constrained			-4.5	-2.9	-0.3				0.4	01/2021
Excess			0.6	0.6	0.5				-0.1	
HIGH YIELD	555,134,519	14.5	-4.0	-2.3	0.2				0.3	01/2021
ICE BofA US Cash Pay HY Constrained			-4.5	-2.9	-0.3				0.4	01/2021
Excess			0.5	0.6	0.5				-0.1	





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	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Return Seeking Bonds Managers					
PAYDEN RYGEL	2.6%				
Multi-Asset Credit Benchmark	2.7				
Excess	-0.1				
PGIM	3.2				
Multi-Asset Credit Benchmark	2.7				
Excess	0.5				
MULTI-ASSET CREDIT	2.9				
Multi-Asset Credit Benchmark	2.7				
Excess	0.2				
KKR	4.7				
ICE BofA US Cash Pay HY Constrained	5.3				
Excess	-0.6				
OAKTREE	4.5				
ICE BofA US Cash Pay HY Constrained	5.3				
Excess	-0.8				
HIGH YIELD	4.6				
ICE BofA US Cash Pay HY Constrained	5.3				
Excess	-0.7				

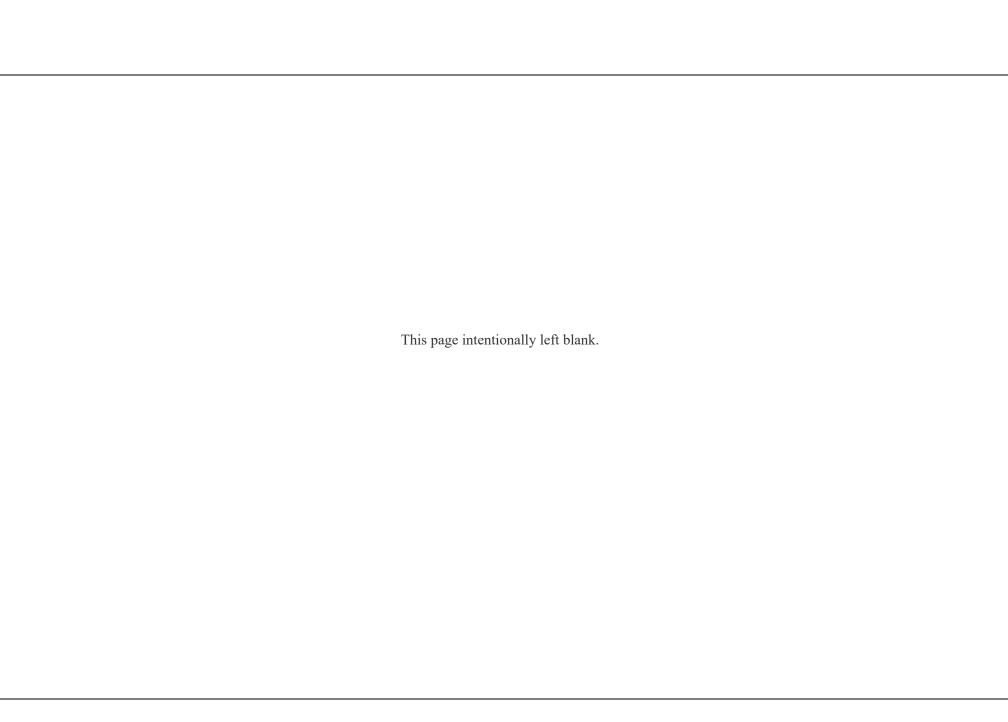


	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Return Seeking Bonds										
CREDIT PLUS	\$1,643,198,966	43.0%	-6.3%	-6.1%	-3.8%				-3.4%	12/2020
Credit Plus Benchmark			-6.5	-6.3	-4.0				-4.8	12/2020
Excess			0.2	0.2	0.2				1.5	
OPPORTUNISTIC FI	490,377,478	12.8	-3.0	-2.9	-2.0				-1.5	12/2020
ICE BofA US 3-Month Treasury Bill			0.0	0.1	0.1				0.1	12/2020
Excess			-3.0	-3.0	-2.1				-1.6	
EMERGING MARKET DEBT	249,525,609	6.5	-8.3	-15.9	-12.3				-14.3	01/2021
JPM JEMB Sovereign-only 50-50			-8.2	-11.3	-8.0				-10.7	01/2021
Excess			-0.0	-4.6	-4.4				-3.6	
SECURITIZED CREDIT	300,323,500	7.9	-0.7	0.1					0.1	06/2021
ICE BofA US 3-Month Treasury Bill			0.0	0.1					0.1	06/2021
Excess			-0.7	0.1					0.0	
MULTI-ASSET CREDIT	586,603,506	15.3	-5.3	-4.1	-1.3				-2.0	01/2021
Multi-Asset Credit Benchmark			-5.0	-4.2	-1.6				-1.9	01/2021
Excess			-0.3	0.1	0.3				-0.1	
HIGH YIELD	555,134,519	14.5	-4.0	-2.3	0.2				0.3	01/2021
ICE BofA US Cash Pay HY Constrained			-4.5	-2.9	-0.3				0.4	01/2021
Excess			0.5	0.6	0.5				-0.1	
RETURN SEEKING BONDS	3,825,146,893	100.0	-5.1	-5.1	-2.8				-2.6	12/2020
Return Seeking Fixed Income Benchmark			-4.8	-4.6	-2.4				-2.6	12/2020
Excess			-0.3	-0.5	-0.4				0.1	





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	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Return Seeking Bonds					
CREDIT PLUS	0.9%				
Credit Plus Benchmark	0.0				
Excess	0.9				
OPPORTUNISTIC FI	0.3				
ICE BofA US 3-Month Treasury Bill	0.0				
Excess	0.2				
EMERGING MARKET DEBT	-10.1				
JPM JEMB Sovereign-only 50-50	-5.3				
Excess	-4.8				
SECURITIZED CREDIT					
ICE BofA US 3-Month Treasury Bill					
Excess					
MULTI-ASSET CREDIT	2.9				
Multi-Asset Credit Benchmark	2.7				
Excess	0.2				
HIGH YIELD	4.6				
ICE BofA US Cash Pay HY Constrained	5.3				
Excess	-0.7				
RETURN SEEKING BONDS	0.9				
Return Seeking Fixed Income Benchmark	0.8				
Excess	0.1				





Treasuries March 31, 2022





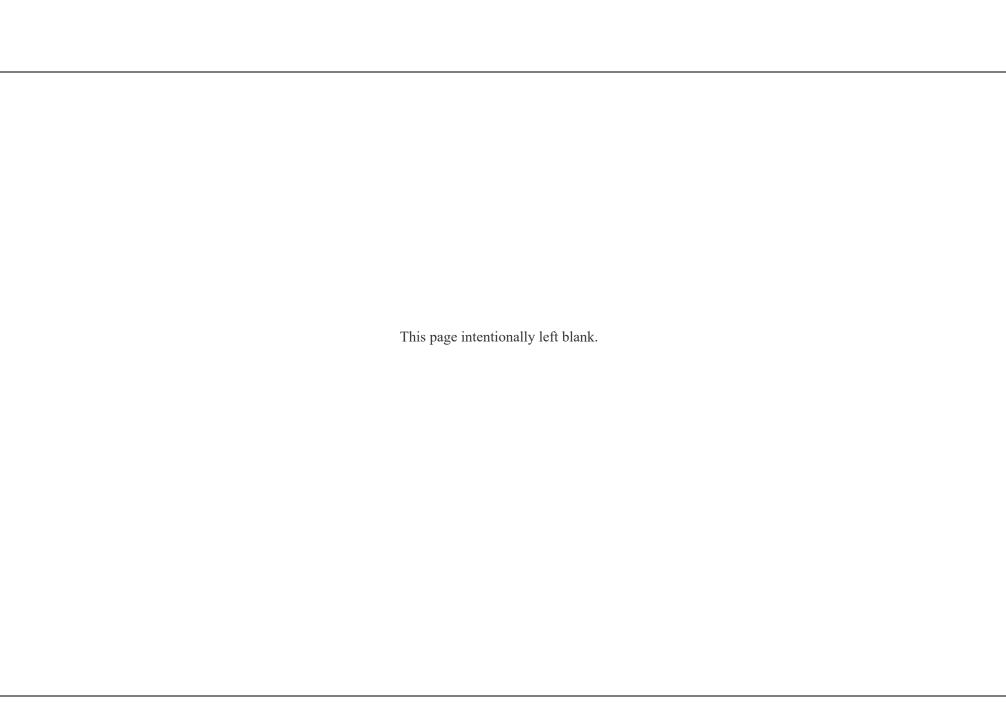
	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Treasuries Managers										
BLACKROCK	\$2,573,447,386	31.0%	-7.9%	-6.8%	-3.1%	2.0%			2.8%	02/2018
Bloomberg Treasury 5+ Year			-8.1	-6.8	-3.1	2.2			2.9	02/2018
Excess			0.2	-0.0	-0.0	-0.1			-0.1	
GOLDMAN SACHS	2,750,416,441	33.2	-7.9	-6.8	-3.2	2.2			3.0	02/2018
Bloomberg Treasury 5+ Year			-8.1	-6.8	-3.1	2.2			2.9	02/2018
Excess			0.2	-0.1	-0.1	0.0			0.0	
NEUBERGER	2,969,172,427	35.8	-7.6	-6.4	-2.8	2.4			3.1	02/2018
Bloomberg Treasury 5+ Year			-8.1	-6.8	-3.1	2.2			2.9	02/2018
Excess			0.5	0.4	0.3	0.3			0.2	
TOTAL TREASURIES	8,293,036,254	100.0	-7.8	-6.7	-3.1	2.2			3.0	02/2018
Bloomberg Treasury 5+ Year			-8.1	-6.8	-3.1	2.2			2.9	02/2018
Excess			0.3	0.1	0.1	0.1			0.0	





	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Treasuries Managers					
BLACKROCK	-4.0%	12.5%	10.4%		
Bloomberg Treasury 5+ Year	-3.8	12.8	10.4		
Excess	-0.2	-0.3	-0.1		
GOLDMAN SACHS	-3.9	12.7	10.6		
Bloomberg Treasury 5+ Year	-3.8	12.8	10.4		
Excess	-0.1	-0.1	0.1		
NEUBERGER	-3.4	12.8	10.4		
Bloomberg Treasury 5+ Year	-3.8	12.8	10.4		
Excess	0.4	-0.1	-0.0		
TOTAL TREASURIES	-3.7	12.7	10.4		
Bloomberg Treasury 5+ Year	-3.8	12.8	10.4		
Excess	0.0	-0.2	0.0		







Laddered Bonds + Cash March 31, 2022





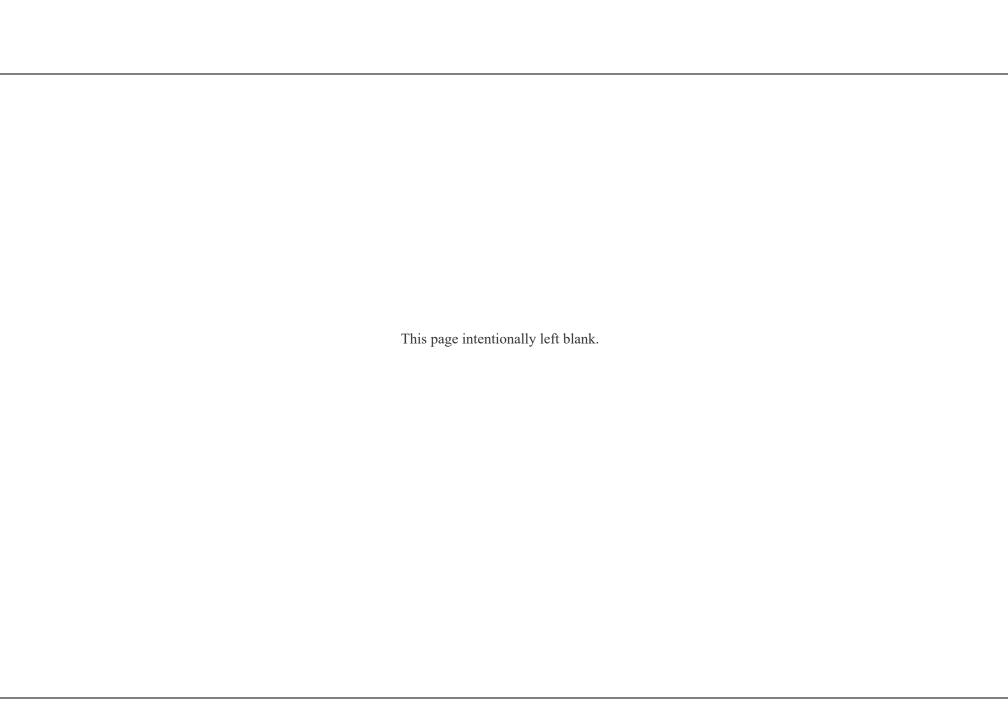
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	Ending Market Value	Portfolio Weight	Last Qtr	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Laddered Bond and Cash Managers									
Neuberger Berman Ladder Bond	\$1,485,720,323	28.4%	-0.3%	-0.3%				-0.2%	11/2020
ICE BofA US 3-Month Treasury Bill			0.0	0.1				0.1	11/2020
Excess			-0.4	-0.4				-0.2	
Goldman Sachs Ladder Bond	1,486,574,358	28.4	-0.3	-0.3				-0.1	11/2020
ICE BofA US 3-Month Treasury Bill			0.0	0.1				0.1	11/2020
Excess			-0.3	-0.3				-0.2	
Treasury Ladder Aggregate	2,972,294,681	56.7	-0.3	-0.3				-0.2	11/2020
ICE BofA US 3-Month Treasury Bill			0.0	0.1				0.1	11/2020
Excess			-0.4	-0.4				-0.2	
Combined Funds STIF	2,239,247,574	42.7	0.0	0.1	0.8%	1.1%	0.7%	1.4	01/2004
iMoneyNet Money Fund Average- All Taxable			0.0	0.0	0.6	0.8	0.4	1.1	01/2004
Excess			0.0	0.1	0.2	0.3	0.2	0.4	
TEACHERS RETIREMENT CD	27,061,401	0.5	0.0	0.1	1.0	1.3	0.8	0.8	02/2012
ICE BofA US 3-Month Treasury Bill			0.0	0.1	0.8	1.1	0.6	0.6	02/2012
Excess			0.0	0.0	0.2	0.2	0.2	0.2	
Laddered Bond + Cash	5,238,608,074	100.0	-0.2	-0.2	0.7	1.1	0.7	4.2	12/1977
ICE BofA US 3-Month Treasury Bill			0.0	0.1	0.8	1.1	0.6	4.4	12/1977
Excess			-0.3	-0.3	-0.1	-0.0	0.1	-0.2	





	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Laddered Bond and Cash Managers					
Neuberger Berman Ladder Bond	0.0%				
ICE BofA US 3-Month Treasury Bill	0.0				
Excess	-0.0				
Goldman Sachs Ladder Bond	0.1				
ICE BofA US 3-Month Treasury Bill	0.0				
Excess	0.0				
Treasury Ladder Aggregate	0.0				
ICE BofA US 3-Month Treasury Bill	0.0				
Excess	-0.0				
Combined Funds STIF	0.1	0.5%	2.3%	2.0%	0.9%
iMoneyNet Money Fund Average- All Taxable	0.0	0.3	1.9	1.5	0.5
Excess	0.1	0.2	0.5	0.5	0.4
TEACHERS RETIREMENT CD	0.1	1.0	2.5	1.8	1.3
ICE BofA US 3-Month Treasury Bill	0.0	0.7	2.3	1.9	0.9
Excess	0.0	0.4	0.2	-0.0	0.5
Laddered Bond + Cash	0.0	0.6	2.3	1.9	1.1
ICE BofA US 3-Month Treasury Bill	0.0	0.7	2.3	1.9	0.9
Excess	-0.0	-0.1	0.1	0.0	0.2







Uninvested Private MarketsMarch 31, 2022



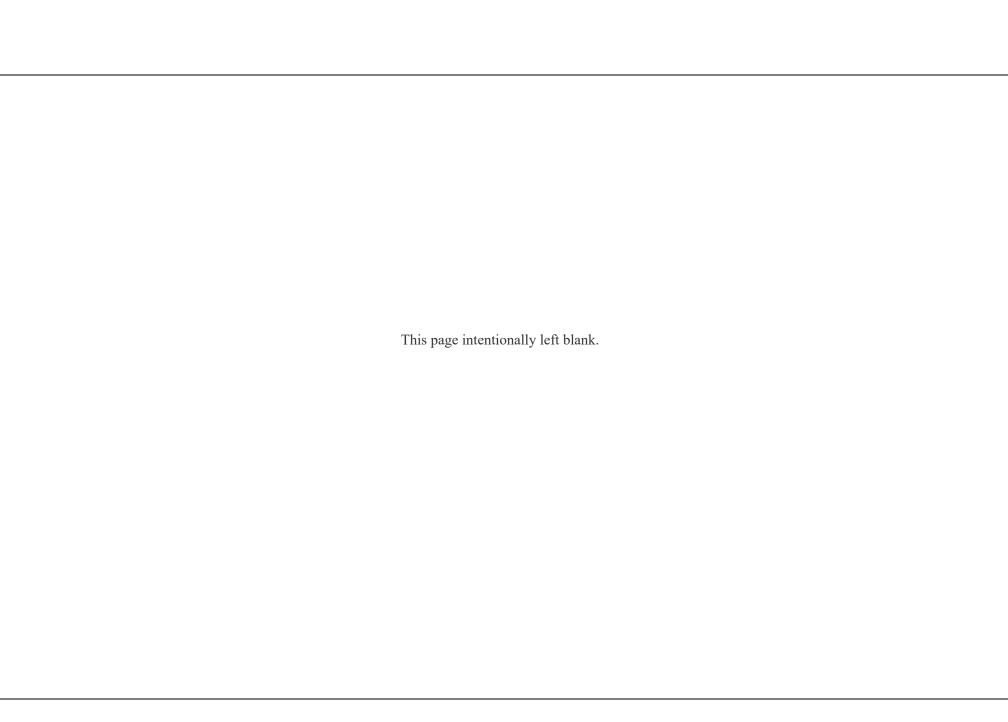


	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Uninvested Private Markets Managers										
NISA PRIVATE MKT UNINV OVERLAY	\$746,315,898	21.3%	-4.5%	6.8%	15.6%				17.6%	01/2021
S&P 500 INDEX (DAILY)			-4.6	6.5	15.6				17.9	01/2021
Excess			0.1	0.3	-0.1				-0.3	
BLACKROCK SP INDEX	2,758,331,824	78.7	-4.4	6.9	16.1				18.3	01/2021
S&P 500 INDEX (DAILY)			-4.6	6.5	15.6				17.9	01/2021
Excess			0.2	0.3	0.4				0.4	
UNINVESTED PRIVATE MARKETS	3,504,647,721	100.0	-4.4	6.8	15.9				18.1	01/2021
S&P 500 INDEX (DAILY)			-4.6	6.5	15.6				17.9	01/2021
Excess			0.2	0.3	0.3				0.2	





	2021 Calendar Return	2020 Calendar Return	2019 Calendar Return	2018 Calendar Return	2017 Calendar Return
Uninvested Private Markets Managers					
NISA PRIVATE MKT UNINV OVERLAY	28.1%				
S&P 500 INDEX (DAILY)	28.7				
Excess	-0.6				
BLACKROCK SP INDEX	28.9				
S&P 500 INDEX (DAILY)	28.7				
Excess	0.2				
UNINVESTED PRIVATE MARKETS	28.6				
S&P 500 INDEX (DAILY)	28.7				
Excess	-0.1				





Private Markets March 31, 2022





Combined Funds Asset Class Performance Summary

Private Markets									
	Last Qtr	FYTD	1 Year	3 Year	5 Year	10 Year	20 Year	25 Year	30 Year
Private Markets - Invested	3.0%	19.9%	31.8%	18.3%	16.5%	13.9%	13.8%	13.8%	13.0%
Private Markets -Uninvested (1)	-4.2%	7.0%	16.1%						
Private Equity	3.3%	20.7%	33.9%	25.1%	21.9%	18.0%	15.9%	15.4%	15.3%
Private Credit	0.2%	13.7%	22.7%	11.3%	12.0%	12.9%	12.4%	12.6%	
Resources	2.8%	16.8%	27.8%	-0.3%	2.2%	2.2%	12.8%	12.5%	12.3%
Real Estate	4.8%	26.4%	32.3%	15.6%	13.6%	12.9%	9.7%	10.6%	9.1%

Private Markets

The time-weighted rates of return for the Private Markets portfolio are shown here. Private Markets included Private Equity, Private Credit, Resources, and Real Estate. Some of the existing investments are relatively immature and returns may not be indicative of future results.

Private Equity Investments - The objectives of the Private Equity portfolio, which may include leveraged buyouts, growth equity, venture capital and special situations, are to achieve attractive returns and to provide overall portfolio diversification to the total plan.

Private Credit Investments - The objectives of the Private Credit portfolio, which may include mezzanine debt, direct lending, and other forms of non-investment grade fixed income instruments, are to achieve a high total return over a full market cycle and to provide some degree of downside protection and typically provide current income in the form of a coupon. In certain situations, investments in the Private Credit portfolio also provide an equity component of return in the form of warrants or re-organized equity.

Resource Investments - The objectives of the Resources portfolio, which may include energy, infrastructure, and other hard assets, are to provide protection against the risks associated with inflation and to provide overall portfolio diversification to the total plan.

Real Estate Investments - The objectives of the Real Estate portfolio, which may include core and non-core real estate investments, are to achieve attractive returns, preserve capital, provide protection against risks associated with inflation, and provide overall portfolio diversification to the total plan.

The SBI also monitors Private Markets performance using money-weighted return metrics such as Internal Rate of Return and Multiple of Invested Capital. For money-weighted return metrics please refer to the Combined Funds Performance Report.

(1) The Uninvested portion of the Private Markets allocation is invested in a combination of a passively managed S&P 500 Index strategy and a cash overlay strategy invested in equity derivatives and cash



Investments	Commitments	Contributions	Distributions	Remaining Commitment	Market Value	Investment Multiple	IRR	Vintage Year
Private Equity	23,388,949,384	17,779,749,700	15,175,249,075	7,250,665,433	14,312,041,911	1.66	13.95	
Adams Street Partners, LLC	285,445,000	152,314,692	104,979,266	133,130,308	135,801,539	1.58	13.86	
Adams Street Global Secondary Fund 5 LP	100,000,000	77,114,692	69,712,308	22,885,308	35,718,577	1.37	7.01	2012
Adams Street Global Secondary Fund 6	100,000,000	75,200,000	35,266,958	24,800,000	95,292,295	1.74	41.90	2017
Adams Street Global Secondary Fund 7	85,445,000	0	0	85,445,000	4,790,668	0.00		2021
Advent International Group	355,000,000	317,330,921	324,631,020	44,428,441	361,826,373	2.16	20.31	
Advent International GPE VI-A, L.P.	50,000,000	52,993,313	103,400,194	0	5,763,322	2.06	16.65	2008
Advent International GPE VII, L.P.	90,000,000	84,690,641	138,972,935	5,400,000	24,210,404	1.93	14.61	2012
Advent International GPE VIII-B	100,000,000	100,000,000	73,062,483	0	138,682,093	2.12	23.38	2016
Advent International GPE IX	115,000,000	79,646,967	9,195,408	39,028,441	193,170,555	2.54	90.79	2019
Affinity Ventures	9,000,000	9,000,000	3,590,011	0	857,493	0.49	-11.88	
Affinity Ventures IV, L.P.	4,000,000	4,000,000	1,541,970	0	3,279	0.39	-38.00	2004
Affinity Ventures V, L.P.	5,000,000	5,000,000	2,048,042	0	854,215	0.58	-8.50	2008
Apax Partners	500,000,000	459,211,228	471,921,450	108,631,757	396,528,946	1.89	19.93	
APAX VIII - USD	200,000,000	233,892,465	335,200,854	11,285,376	80,376,312	1.78	15.40	2013
Apax IX USD L.P.	150,000,000	153,213,918	136,889,929	19,620,560	229,345,321	2.39	32.26	2016
Apax X USD L.P.	150,000,000	72,104,846	-169,333	77,725,821	86,807,313	1.20	30.60	2019
Arsenal Capital Partners	175,000,000	59,579,360	2,572,916	117,872,804	75,118,508	1.30	15.17	
Arsenal Capital Partners V, L.P.	75,000,000	59,579,360	2,572,916	17,872,804	75,118,508	1.30	15.17	2019
Arsenal Capital Partners VI LP	100,000,000	0	0	100,000,000	0	0.00		2021
Asia Alternatives	399,000,000	113,540,058	10,593,484	293,094,201	121,330,674	1.16	11.00	
Asia Alternatives Capital Partners V	99,000,000	86,558,091	10,585,653	20,076,168	96,478,745	1.24	12.93	2017
MN Asia Investors	300,000,000	26,981,967	7,831	273,018,033	24,851,930	0.92	-19.19	2020
Banc Fund	276,801,387	285,710,477	246,820,430	0	223,401,491	1.65	11.09	
Banc Fund VIII, L.P.	98,250,000	98,250,000	211,093,311	0	33,216	2.15	12.74	2008
Banc Fund IX, L.P.	107,205,932	107,205,932	32,414,449	0	128,277,794	1.50	8.08	2014
Banc Fund X, L.P.	71,345,455	80,254,545	3,312,670	0	95,090,481	1.23	10.08	2018
BlackRock	951,774,870	956,392,392	4,457,327	0	1,133,328,402	1.19	28.52	
BlackRock Tempus Fund	1,774,870	1,774,870	1,796,583	0	193,102	1.12	5.96	2015
BlackRock Long Term Capital, SCSP	950,000,000	954,617,522	2,660,745	0	1,133,135,300	1.19	28.87	2019

Investments	Commitments	Contributions	Distributions	Remaining Commitment	Market Value	Investment Multiple	IRR	Vintage Year
Blackstone Group L.P.	1,235,000,000	746,672,516	667,382,204	578,032,180	501,901,948	1.57	16.26	
Blackstone Capital Partners Asia II	270,000,000	0	0	270,000,000	0	0.00		2021
Blackstone Capital Partners IV, L.P.	70,000,000	84,459,884	200,562,452	1,832,302	1,037,563	2.39	37.02	2002
Blackstone Capital Partners V L.P.	140,000,000	152,406,707	243,424,491	7,027,560	2,870,917	1.62	8.01	2006
Blackstone Capital Partners VI, L.P.	100,000,000	106,525,984	141,756,833	11,175,309	45,073,387	1.75	12.46	2008
Blackstone Capital Partners VII	130,000,000	136,409,143	63,223,915	10,977,430	159,685,572	1.63	18.79	2015
Blackstone Capital Partners VIII LP	150,000,000	55,015,810	2,643,004	100,251,159	66,096,915	1.25	38.09	2019
Blackstone Growth	250,000,000	170,104,989	15,771,509	93,518,419	184,020,699	1.17	33.15	2020
Blackstone Supplemental Account - M	125,000,000	41,750,000	0	83,250,000	43,116,895	1.03	5.36	2021
Blackstone Strategic Partners	915,500,000	669,435,312	778,840,047	339,379,420	288,995,192	1.60	12.08	
Strategic Partners III VC, L.P.	25,000,000	25,059,678	33,874,990	1,008,025	284,606	1.36	5.98	2004
Strategic Partners III-B, L.P.	100,000,000	79,629,077	118,509,586	12,304,709	210,560	1.49	6.35	2004
Strategic Partners IV VC, L.P.	40,500,000	42,142,465	61,953,059	2,280,277	2,738,468	1.54	9.21	2008
Strategic Partners IV-B	100,000,000	99,356,038	152,338,242	11,669,115	4,017,394	1.57	12.22	2008
Strategic Partners V, LP	100,000,000	87,009,825	133,189,178	21,248,872	10,287,127	1.65	18.70	2011
Strategic Partners VI, L.P.	150,000,000	102,888,265	123,778,116	53,777,842	37,433,499	1.57	15.67	2014
Strategic Partners VII, L.P.	150,000,000	111,312,073	100,123,559	54,749,514	97,831,046	1.78	22.11	2016
Strategic Partners VIII	150,000,000	106,675,490	54,771,177	97,524,399	121,311,299	1.65	54.94	2018
Strategic Partners IX	100,000,000	15,362,402	302,140	84,816,667	14,881,193	0.99	-1.71	2022
Bridgepoint	170,225,574	124,495,376	13,311,036	45,730,198	144,340,693	1.27	19.23	
Bridgepoint Europe VI L.P.	170,225,574	124,495,376	13,311,036	45,730,198	144,340,693	1.27	19.23	2018
Brookfield Asset Management Inc.	350,000,000	283,080,988	176,225,320	102,691,928	319,343,466	1.75	40.14	
Brookfield Capital Partners Fund IV	100,000,000	106,575,350	160,931,912	13,781,784	107,495,876	2.52	47.97	2015
Brookfield Capital Partners V L.P.	250,000,000	176,505,638	15,293,408	88,910,143	211,847,590	1.29	19.21	2018
CVC Capital Partners	391,543,037	435,638,955	540,973,576	26,286,458	326,118,406	1.99	17.72	
CVC European Equity Partners V, L.P.	133,905,392	153,884,098	294,886,647	1,589,130	5,992,031	1.96	16.81	2008
CVC Capital Partners VI	257,637,644	281,754,857	246,086,929	24,697,327	320,126,374	2.01	18.93	2013
Canyon Partners	125,000,000	85,000,000	21,475,843	61,475,843	83,519,536	1.24	19.62	
Canyon Distressed Opportunity Fund III	125,000,000	85,000,000	21,475,843	61,475,843	83,519,536	1.24	19.62	2020

Investments	Commitments	Contributions	Distributions	Remaining Commitment	Market Value	Investment Multiple	IRR	Vintage Year
CarVal Investors	900,000,000	772,703,333	883,121,710	127,500,000	283,979,993	1.51	10.69	
CarVal Credit Value Fund I	100,000,000	95,000,000	213,688,163	5,000,000	181,229	2.25	18.71	2010
CVI Credit Value Fund A II	150,000,000	142,500,000	199,242,174	7,500,000	4,122,553	1.43	8.32	2012
CVI Credit Value Fund A III	150,000,000	142,500,000	149,290,605	7,500,000	42,347,084	1.34	8.61	2015
CVI Credit Value Fund IV	150,000,000	135,203,333	60	15,000,000	167,204,520	1.24	7.55	2017
CVI Credit Value Fund V	150,000,000	67,500,000	154,566	82,500,000	70,024,973	1.04	7.02	2020
CVI Global Value Fund, L.P.	200,000,000	190,000,000	320,746,143	10,000,000	99,635	1.69	9.53	2007
Cardinal Partners	10,000,000	10,000,000	39,196,082	0	30,414	3.92	10.61	
DSV Partners IV	10,000,000	10,000,000	39,196,082	0	30,414	3.92	10.61	1985
Carlyle Group	400,000,000	264,275,015	57,102,334	185,288,820	242,667,156	1.13	9.68	
Carlyle Partners VII, L.P.	150,000,000	146,080,022	4,889,664	8,809,642	165,855,463	1.17	11.24	2017
Carlyle Partners VIII	150,000,000	4,860,867	0	145,139,133	4,860,867	1.00		2021
Carlyle Strategic Partners IV, L.P.	100,000,000	113,334,126	52,212,670	31,340,045	71,950,826	1.10	7.50	2016
Chicago Growth Partners	60,000,000	58,347,626	123,371,040	1,652,374	479,452	2.12	19.54	
Chicago Growth Partners II, L.P.	60,000,000	58,347,626	123,371,040	1,652,374	479,452	2.12	19.54	2008
Court Square	500,000,000	453,812,764	557,899,719	95,272,061	230,479,922	1.74	14.44	
Court Square Capital Partners II, L.P.	175,000,000	170,029,204	295,744,454	16,757,741	9,237,662	1.79	12.53	2006
Court Square Capital Partners III, L.P.	175,000,000	187,850,200	225,585,707	8,332,182	140,637,217	1.95	19.22	2012
Court Square Capital Partners IV, L.P.	150,000,000	95,933,360	36,569,558	70,182,138	80,605,043	1.22	17.35	2018
Crescendo	101,500,000	103,101,226	57,982,654	0	305,177	0.57	-4.60	
Crescendo Ventures IV	101,500,000	103,101,226	57,982,654	0	305,177	0.57	-4.60	2000
GTCR	210,000,000	211,174,635	421,341,248	14,989,866	238,769,141	3.13	28.61	
GTCR Fund X	100,000,000	105,821,208	214,751,215	6,751,396	572,846	2.03	21.36	2010
GTCR XI	110,000,000	105,353,427	206,590,033	8,238,470	238,196,294	4.22	40.90	2013
Goldman, Sachs & Co.	549,800,000	433,807,976	465,690,007	162,105,051	278,425,436	1.72	15.42	
GS Capital Partners V, L.P.	100,000,000	74,319,006	191,435,136	1,041,099	588,782	2.58	18.23	2005
GS Capital Partners VI, L.P.	100,000,000	110,260,752	140,595,269	2,551,356	5,228,548	1.32	7.23	2007
GS China-US Cooperation Fund	99,800,000	30,114,445	0	69,860,000	35,357,523	1.17	9.87	2018
GS Vintage VII	100,000,000	83,084,919	47,850,126	57,182,047	96,212,612	1.73	21.19	2016
West Street Capital Partners VII, L.P.	150,000,000	136,028,854	85,809,476	31,470,549	141,037,971	1.67	22.91	2016
Goldner Hawn Johnson & Morrison	77,755,138	48,661,159	51,364,283	29,265,945	37,447,597	1.83	18.35	
GHJM TrailHead Fund	20,000,000	16,652,130	51,364,283	3,354,486	6,344,667	3.47	20.45	2012
Goldner Hawn Fund VII, L.P.	57,755,138	32,009,029	0	25,911,460	31,102,930	0.97	-2.47	2018

Investments	Commitments	Contributions	Distributions	Remaining Commitment	Market Value	Investment Multiple	IRR	Vintage Year
Green Equity Investors	325,000,000	320,933,278	232,611,638	40,854,141	371,077,815	1.88	17.00	
Green Equity Investors VI, L.P.	200,000,000	224,217,021	232,474,764	12,433,524	268,002,434	2.23	17.17	2012
Green Equity Investors VIII	125,000,000	96,716,257	136,874	28,420,617	103,075,380	1.07	9.70	2020
HarbourVest	21,646,198	20,932,251	25,040,966	801,154	7,877,632	1.57	13.38	
Dover Street VII Cayman Fund L.P.	2,198,112	2,074,080	1,787,970	132,416	112,487	0.92	-3.59	2014
HarbourVest Intl PE Partners V-Cayman US	3,518,629	3,346,005	4,413,905	178,024	201,016	1.38	14.13	2014
Harbourvest Intl PE Partners VI-Cayman	4,231,848	4,039,458	4,971,855	194,714	3,193,521	2.02	16.97	2014
HarbourVest Partners VIII Cayman Buyout	4,506,711	4,387,189	5,574,478	156,000	698,592	1.43	13.65	2014
HarbourVest Partners VIII-Cayman Venture	7,190,898	7,085,519	8,292,759	140,000	3,672,015	1.69	13.36	2014
Hellman & Friedman	650,000,000	519,209,616	472,749,884	134,461,132	353,760,587	1.59	14.97	
Hellman & Friedman Capital Partners VI, L.P.	175,000,000	171,037,755	315,233,005	5,062,369	3,216,013	1.86	12.90	2007
Hellman & Friedman Capital Partners VII, L.P.	50,000,000	49,883,520	153,358,750	2,218,442	10,467,521	3.28	25.02	2009
Hellman & Friedman Investors IX, L.P.	175,000,000	162,951,891	4,158,129	12,516,771	205,169,756	1.28	21.16	2018
Hellman & Friedman Capital Partners X	250,000,000	135,336,450	0	114,663,550	134,907,298	1.00	-0.51	2021
IK Limited	505,953,564	437,724,366	429,343,125	80,581,637	301,293,646	1.67	16.17	
IK Fund VII	180,147,137	179,315,195	294,196,910	8,438,643	48,784,443	1.91	14.89	2013
IK Fund VIII	170,789,497	175,535,613	135,146,215	0	165,619,498	1.71	19.88	2016
IK Fund IX	155,016,929	82,873,558	0	72,142,995	86,889,705	1.05	7.20	2019
Kohlberg, Kravis, Roberts & Co.	1,547,000,000	863,303,831	891,964,248	738,026,097	650,409,781	1.79	14.26	
KKR Millennium Fund	200,000,000	205,167,570	424,946,028	0	161,924	2.07	16.37	2002
KKR 2006 Fund L.P.	200,000,000	218,137,965	368,112,101	3,300,979	25,698,178	1.81	9.15	2006
KKR Americas Fund XII L.P.	150,000,000	143,538,496	48,461,294	18,268,516	261,861,199	2.16	38.22	2016
KKR Asian Fund III	100,000,000	86,962,596	35,096,983	22,311,397	137,186,939	1.98	35.99	2017
KKR Asian Fund IV	150,000,000	27,282,329	0	122,717,671	27,201,737	1.00	-0.38	2020
KKR Europe V	100,000,000	77,068,576	12,333,301	25,858,673	88,182,220	1.30	24.30	2018
KKR European Fund VI (USD) SCSp	100,000,000	0	0	100,000,000	0	0.00		2022
KKR Core Investments Partnership	97,000,000	66,972,529	3,014,541	33,742,631	71,683,050	1.12	17.14	2021
KKR MN Partnership L.P.	150,000,000	38,173,770	0	111,826,230	38,434,535	1.01	1.08	2021
KKR North America Fund XIII	300,000,000	0	0	300,000,000	0	0.00		2021

Investments	Commitments	Contributions	Distributions	Remaining Commitment	Market Value	Investment Multiple	IRR	Vintage Year
Lexington Partners	1,345,000,000	885,657,998	671,521,816	524,639,149	720,649,270	1.57	14.58	
Lexington Capital Partners VI-B, L.P.	100,000,000	98,374,022	145,572,539	1,634,703	1,037,400	1.49	7.92	2005
Lexington Capital Partners VII, L.P.	200,000,000	172,714,663	256,813,708	37,812,041	34,900,322	1.69	14.80	2009
Lexington Capital Partners VIII, L.P.	150,000,000	136,386,669	123,036,465	32,663,555	107,900,215	1.69	19.21	2014
Lexington Capital Partners IX, L.P.	150,000,000	93,876,748	24,409,751	67,786,205	127,552,893	1.62	65.55	2018
Lexington Capital Partners X	100,000,000	0	0	100,000,000	0	0.00		2021
Lexington Co-Investment Partners IV	200,000,000	210,596,275	94,558,993	9,135,940	260,275,498	1.68	21.56	2017
Lexington Co-Investment Partners V	300,000,000	90,788,493	2,732,981	212,688,743	97,740,325	1.11	18.07	2020
Lexington Co-Investment Partners V Overage	45,000,000	13,959,000	839,090	31,880,090	13,362,825	1.02	2.69	2021
Lexington Middle Market Investors IV	100,000,000	68,962,128	23,558,289	31,037,872	77,879,792	1.47	33.29	2016
MHR Institutional Partners	75,000,000	74,809,392	19,816,608	19,948,636	79,622,880	1.33	9.91	
MHR Institutional Partners IV LP	75,000,000	74,809,392	19,816,608	19,948,636	79,622,880	1.33	9.91	2014
Madison Dearborn Capital Partners LLC	200,000,000	128,416,166	48,044,278	93,259,724	150,923,927	1.55	16.46	
Madison Dearborn Capital Partners VII, L.P.	100,000,000	96,197,320	40,418,834	19,120,947	114,208,418	1.61	15.00	2015
Madison Dearborn Capital Partners VIII-A, L.P	100,000,000	32,218,846	7,625,444	74,138,777	36,715,509	1.38	41.27	2019
Marathon	200,000,000	115,906,171	6,185,200	90,000,000	140,885,470	1.27	33.33	
Marathon Distressed Credit Fund	200,000,000	115,906,171	6,185,200	90,000,000	140,885,470	1.27	33.33	2020
Merced Capital	278,737,500	288,144,755	269,214,922	0	74,339,007	1.19	3.94	
Merced Partners III	100,000,000	103,878,468	133,823,596	0	2,268,886	1.31	5.65	2010
Merced Partners IV	125,000,000	124,968,390	111,222,539	0	26,882,913	1.11	2.17	2013
Merced Partners V	53,737,500	59,297,897	24,168,787	0	45,187,209	1.17	3.86	2017
Neuberger Berman LLC	625,000,000	371,776,639	261,563,913	455,025,815	408,683,689	1.80	38.71	
Dyal Capital Partners III	175,000,000	197,750,746	186,355,275	109,247,334	141,277,874	1.66	27.65	2015
Dyal Capital Partners IV	250,000,000	139,025,893	74,785,724	180,778,481	198,220,370	1.96	71.44	2018
Dyal Capital Partners V	200,000,000	35,000,000	422,914	165,000,000	69,185,445	1.99	123.01	2020
Nordic Capital	497,110,476	414,071,352	319,818,820	165,726,069	447,580,428	1.85	21.50	
Nordic Capital Fund VIII	175,618,762	220,988,400	281,663,208	27,026,140	125,741,940	1.84	16.86	2013
Nordic Capital Fund X	151,157,043	32,715,027	0	118,442,017	42,589,481	1.30	61.99	2020
Nordic Capital IX Beta, L.P.	170,334,671	160,367,925	38,155,612	20,257,912	279,249,006	1.98	45.15	2017
North Sky Capital	2,454,339	1,998,089	2,491,492	456,250	432,881	1.46	13.54	
North Sky Capital LBO Fund III, LP	1,070,259	720,259	1,026,684	350,000	72,681	1.53	14.50	2014
North Sky Capital Venture Fund III, LP	1,384,080	1,277,830	1,464,808	106,250	360,200	1.43	12.94	2014

Investments	Commitments	Contributions	Distributions	Remaining Commitment	Market Value	Investment Multiple	IRR	Vintage Year
Oak Hill Capital Management, Inc.	250,000,000	235,060,192	217,994,544	39,374,232	158,610,697	1.60	34.77	
Oak Hill Capital Partners IV Onshore LP	150,000,000	146,342,776	217,959,501	28,091,648	59,433,320	1.90	35.75	2016
Oak Hill Capital Partners V	100,000,000	88,717,416	35,043	11,282,584	99,177,376	1.12	22.62	2018
Oaktree Capital Management, LLC	200,000,000	151,409,623	44,435,451	84,289,598	169,961,996	1.42	13.39	
Oaktree Special Situations Fund, L.P.	100,000,000	101,678,436	20,335,451	10,241,294	99,490,425	1.18	4.90	2014
Oaktree Special Situations Fund II, L.P.	100,000,000	49,731,187	24,100,000	74,048,304	70,471,571	1.90	93.58	2018
Paine & Partners, LLC	225,000,000	158,648,399	44,088,663	75,071,883	149,159,291	1.22	9.23	
Paine Schwartz Food Chain Fund IV	75,000,000	64,832,786	35,397,971	11,240,368	55,401,715	1.40	9.01	2014
Paine Schwartz Food Chain Fund V, L.P.	150,000,000	93,815,613	8,690,692	63,831,515	93,757,576	1.09	10.15	2018
Permal PE	5,337,098	4,382,196	4,150,751	1,090,000	871,981	1.15	4.73	
Glouston Private Equity Opportunities IV	5,337,098	4,382,196	4,150,751	1,090,000	871,981	1.15	4.73	2014
Permira	624,656,344	427,912,039	397,104,996	245,797,772	538,143,036	2.19	23.50	
Permira V, L.P.	177,530,156	183,115,856	313,545,638	12,995,017	243,902,462	3.04	24.24	2013
Permira VI, L.P.	136,552,206	125,857,463	72,333,687	29,941,821	174,549,986	1.96	23.21	2016
Permira VII L.P.1	143,676,441	118,938,719	11,225,671	35,963,393	119,690,587	1.10	8.95	2019
Permira VIII	166,897,542	0	0	166,897,542	0	0.00		2022
Public Pension Capital Management	175,000,000	123,131,239	83,202,694	67,726,741	146,253,453	1.86	24.23	
Public Pension Capital, LLC	175,000,000	123,131,239	83,202,694	67,726,741	146,253,453	1.86	24.23	2014
Silver Lake Partners	335,000,000	338,699,804	347,011,275	19,880,158	407,303,148	2.16	16.06	
Silver Lake Partners III, L.P.	100,000,000	93,771,585	191,856,230	9,528,468	27,585,910	2.34	18.60	2007
Silver Lake Partners IV	100,000,000	115,120,604	118,395,169	2,857,721	190,800,553	2.69	26.59	2012
Silver Lake Partners V, L.P.	135,000,000	129,807,615	36,759,876	7,493,969	188,916,685	1.74	26.21	2017
Split Rock	110,000,000	107,055,906	125,392,564	2,944,094	25,247,380	1.41	4.91	
Split Rock Partners LP	50,000,000	47,890,906	58,794,192	2,109,094	2,633,279	1.28	3.05	2005
Split Rock Partners II, LP	60,000,000	59,165,000	66,598,372	835,000	22,614,101	1.51	7.28	2008
Summit Partners	600,000,000	365,407,107	392,983,953	437,990,808	358,840,491	2.06	30.59	
Summit Partners Growth Equity Fund VIII	100,000,000	116,727,192	229,442,550	23,129,320	73,777,717	2.60	27.98	2011
Summit Partners Growth Equity Fund IX	100,000,000	131,274,916	141,424,991	110,150,075	157,908,845	2.28	40.18	2015
Summit Partners Growth Equity Fund X-A	150,000,000	117,404,999	22,116,412	54,711,413	127,153,929	1.27	30.31	2019
Summit Partners Growth Equity Fund XI	250,000,000	0	0	250,000,000	0	0.00		2021

Investments	Commitments	Contributions	Distributions	Remaining Commitment	Market Value	Investment Multiple	IRR	Vintage Year
TPG Capital	550,000,000	260,289,616	153,697,933	315,403,489	235,702,086	1.50	22.42	
TPG Growth V	150,000,000	57,953,251	526,470	93,174,085	71,411,423	1.24	24.72	2021
TPG Partners VII, L.P.	100,000,000	100,055,640	134,533,100	7,815,513	52,706,706	1.87	19.96	2015
TPG Partners VIII	150,000,000	93,814,641	18,638,363	72,879,975	103,862,593	1.31	35.57	2018
TPG Tech Adjacencies II, L.P.	150,000,000	8,466,084	0	141,533,916	7,721,365	0.91	-8.80	2021
Thoma Bravo LLC	425,000,000	438,757,156	217,066,288	58,655,648	483,438,191	1.60	23.79	
Thoma Bravo Fund XII, L.P.	75,000,000	81,455,833	30,976,372	18,945,315	123,414,132	1.90	17.50	2016
Thoma Bravo Fund XIII, L.P.	150,000,000	166,084,959	79,031,939	30,926,697	217,593,289	1.79	42.48	2018
Thoma Bravo Fund XIV	150,000,000	141,216,364	37	8,783,636	141,999,550	1.01	0.88	2020
Thoma Cressey Fund VII, L.P.	50,000,000	50,000,000	107,057,940	0	431,220	2.15	23.58	2000
Thomas H. Lee Partners	400,000,000	240,963,597	185,570,700	188,568,684	279,018,058	1.93	33.75	
Thomas H. Lee Equity Fund VII, LP.	100,000,000	99,416,381	132,589,381	10,745,776	52,729,935	1.86	23.19	2015
Thomas H. Lee Equity Fund VIII, L.P.	150,000,000	135,570,240	52,981,319	33,799,884	220,311,147	2.02	67.38	2018
Thomas H. Lee Equity Fund IX	150,000,000	5,976,976	0	144,023,024	5,976,976	1.00		2021
Thomas, McNerney & Partners	80,000,000	78,125,000	123,961,847	1,875,000	2,140,216	1.61	8.16	
Thomas, McNerney & Partners I, L.P.	30,000,000	30,000,000	15,087,143	0	1,026,945	0.54	-10.48	2002
Thomas, McNerney & Partners II, L.P.	50,000,000	48,125,000	108,874,704	1,875,000	1,113,271	2.29	16.40	2006
Varde Fund	600,000,000	564,750,000	676,476,918	35,250,000	202,550,715	1.56	9.87	
Varde Fund IX, L.P.	100,000,000	100,000,000	216,221,047	0	0	2.16	15.01	2008
Varde Fund X, LP	150,000,000	150,000,000	251,421,642	0	10,205,919	1.74	10.11	2010
Varde Fund XI, LP	200,000,000	200,000,000	208,814,191	0	59,100,424	1.34	4.89	2013
Varde Fund XIII, L.P.	150,000,000	114,750,000	20,038	35,250,000	133,244,372	1.16	10.61	2018
Vestar Capital Partners	380,000,000	333,277,631	352,742,923	56,184,822	188,410,386	1.62	11.82	
Vestar Capital Partners IV, L.P.	55,000,000	55,652,024	102,293,320	57,313	376,534	1.84	14.63	1999
Vestar Capital Partners V, L.P.	75,000,000	76,797,458	99,818,631	0	1,639,877	1.32	3.93	2005
Vestar Capital Partners VI, LP	100,000,000	106,955,659	150,510,164	0	57,910,087	1.95	24.16	2011
Vestar Capital Partners VII, L.P.	150,000,000	93,872,491	120,808	56,127,509	128,483,888	1.37	19.66	2017
Vista Equity Partners	200,000,000	147,617,149	77,223	53,595,754	159,750,896	1.08	6.41	
Vista Equity Partners Perennial	200,000,000	147,617,149	77,223	53,595,754	159,750,896	1.08	6.41	2020

Investments	Commitments	Contributions	Distributions	Remaining Commitment	Market Value	Investment Multiple	IRR	Vintage Year
Warburg Pincus	1,416,000,000	1,051,107,343	979,066,914	371,373,500	790,223,489	1.68	11.63	
Warburg Pincus China, L.P.	45,000,000	45,585,000	16,711,200	1,350,000	60,748,534	1.70	17.35	2016
Warburg Pincus China-Southeast Asia II	50,000,000	17,200,000	1,715,000	32,800,000	20,391,466	1.29	25.40	2019
Warburg Pincus Financial Sector	90,000,000	80,756,774	12,207,600	13,455,000	131,294,799	1.78	26.26	2017
Warburg Pincus Global Growth 14, L.P.	300,000,000	14,951,507	0	285,000,000	15,000,000	1.00	0.32	2022
Warburg Pincus Global Growth, L.P.	250,000,000	213,040,110	2,625,000	37,000,000	278,448,607	1.32	22.29	2018
Warburg Pincus Private Equity IX, L.P.	100,000,000	100,000,000	170,824,150	0	1,125,760	1.72	9.60	2005
Warburg Pincus Private Equity X, LP	150,000,000	150,000,000	266,203,541	0	3,116,240	1.80	9.52	2007
Warburg Pincus Private Equity XI, LP	200,000,000	200,342,452	259,415,748	0	97,068,379	1.78	12.99	2012
Warburg Pincus Private Equity XII, LP	131,000,000	129,231,500	85,822,423	1,768,500	182,637,208	2.08	21.44	2015
Warburg, Pincus Equity Partners, L.P.	100,000,000	100,000,000	163,542,253	0	392,497	1.64	10.02	1998
Wayzata Investment Partners	300,000,000	243,165,000	379,022,482	15,750,000	18,861,791	1.64	14.38	
Wayzata Opportunities Fund II, LLC	150,000,000	174,750,000	333,882,672	750,000	263,564	1.91	16.57	2007
Wayzata Opportunities Fund III	150,000,000	68,415,000	45,139,810	15,000,000	18,598,227	0.93	-1.68	2012
Wellspring Capital Partners	125,000,000	149,192,072	55,485,810	14,724,724	149,187,769	1.37	25.29	
Wellspring Capital Partners VI, L.P.	125,000,000	149,192,072	55,485,810	14,724,724	149,187,769	1.37	25.29	2016
Welsh, Carson, Anderson & Stowe	500,000,000	403,698,490	365,218,998	96,301,510	372,904,882	1.83	18.97	
Welsh, Carson, Anderson & Stowe XI, L.P.	100,000,000	100,000,000	161,464,441	0	6,855,659	1.68	11.74	2008
Welsh, Carson, Anderson & Stowe XII, L.P.	150,000,000	145,877,897	177,480,040	4,122,103	185,658,273	2.49	29.65	2014
Welsh, Carson, Anderson & Stowe XIII, L.P.	250,000,000	157,820,593	26,274,517	92,179,407	180,390,950	1.31	33.07	2018
Whitehorse Capital	300,000,000	190,583,586	106,198,956	157,659,147	159,486,548	1.39	36.53	
Whitehorse Liquidity Partners III	100,000,000	97,043,131	62,503,282	20,851,557	68,171,075	1.35	24.56	2019
Whitehorse Liquidity Partners IV	100,000,000	77,239,319	37,024,848	46,580,530	63,557,194	1.30	44.45	2020
Whitehorse Liquidity Partners V	100,000,000	16,301,137	6,670,826	90,227,061	27,758,279	2.11	74.45	2021
Wind Point Partners	100,000,000	65,571,472	1,912,585	36,345,716	64,281,979	1.01	1.03	
Wind Point Partners IX	100,000,000	65,571,472	1,912,585	36,345,716	64,281,979	1.01	1.03	2019
Windjammer Capital Investors	266,708,861	204,775,169	247,174,686	64,204,695	119,159,463	1.79	11.85	
Windjammer Mezzanine & Equity Fund II	66,708,861	55,215,684	85,036,800	1,013,936	63,347	1.54	8.95	2000
Windjammer Senior Equity Fund IV, L.P.	100,000,000	94,740,728	160,930,989	16,802,619	47,006,017	2.19	16.38	2012
Windjammer Senior Equity Fund V, L.P.	100,000,000	54,818,757	1,206,897	46,388,140	72,090,099	1.34	19.01	2017

Investments	Commitments	Contributions	Distributions	Remaining Commitment	Market Value	Investment Multiple	IRR	Vintage Year
Private Credit	4,119,641,781	2,981,180,391	2,266,830,332	1,619,683,727	1,612,732,496	1.30	9.90	
Audax Group	350,000,000	188,061,140	193,657,146	180,730,052	46,259,292	1.28	10.27	
Audax Mezzanine Fund III, L.P.	100,000,000	105,200,312	133,917,489	782	4,320,090	1.31	9.69	2010
Audax Mezzanine Fund IV-A, L.P.	100,000,000	82,860,828	59,739,657	30,729,270	41,642,696	1.22	12.04	2015
Audax Mezzanine Fund V	150,000,000	0	0	150,000,000	296,506	0.00		2020
Avenue Capital Partners	200,000,000	200,977,328	72,265,702	0	201,309,688	1.36	6.68	
Avenue Energy Opportunities Fund II	100,000,000	100,000,000	23,841,487	0	125,583,458	1.49	11.25	2017
Avenue Energy Opportunities Fund, L.P.	100,000,000	100,977,328	48,424,215	0	75,726,230	1.23	3.75	2014
BlackRock	97,500,000	92,646,829	11,145,751	4,853,171	98,597,905	1.18	8.76	
BlackRock Middle Market Senior Fund	97,500,000	92,646,829	11,145,751	4,853,171	98,597,905	1.18	8.76	2018
Brookfield Asset Management Inc.	200,000,000	34,157,840	0	165,842,160	34,549,938	1.01	1.81	
Brookfield Real Estate Finance Fund VI	200,000,000	34,157,840	0	165,842,160	34,549,938	1.01	1.81	2021
Energy Capital Partners	28,087,500	23,046,496	9,451,244	14,492,248	14,010,056	1.02	2.19	
Energy Capital Credit Solutions II-A	28,087,500	23,046,496	9,451,244	14,492,248	14,010,056	1.02	2.19	2018
Gold Hill	65,852,584	65,852,584	113,654,899	0	3,586,688	1.78	11.86	
Gold Hill 2008	25,852,584	25,852,584	48,393,297	0	3,198,224	2.00	14.60	2008
Gold Hill Venture Lending	40,000,000	40,000,000	65,261,602	0	388,464	1.64	10.70	2004
Goldman, Sachs & Co.	250,000,000	261,176,828	315,988,287	47,422,591	1,226,215	1.21	6.80	
GS Mezzanine Partners 2006 Institutional	100,000,000	113,458,168	135,137,487	9,858,563	567,940	1.20	5.00	2006
GS Mezzanine Partners V, L.P.	150,000,000	147,718,660	180,850,800	37,564,028	658,275	1.23	9.08	2007
HPS Investment Partners	100,000,000	90,928,301	12,918,177	17,732,370	94,457,390	1.18	16.08	
HPS Mezzanine Partners 2019, L.P.	100,000,000	90,928,301	12,918,177	17,732,370	94,457,390	1.18	16.08	2019
Kohlberg, Kravis, Roberts & Co.	274,000,000	349,064,594	283,731,195	109,388,462	114,839,324	1.14	9.11	
KKR Lending Partner II L.P.	75,000,000	86,884,685	82,467,685	8,802,924	7,745,789	1.04	1.93	2015
KKR Lending Partners III L.P.	199,000,000	262,179,909	201,263,510	100,585,538	107,093,535	1.18	13.81	2017
LBC Credit Partners	200,000,000	180,644,269	121,268,226	76,870,495	88,552,856	1.16	10.46	
LBC Credit Partners IV, L.P.	100,000,000	110,979,717	103,956,027	36,445,534	26,875,711	1.18	8.69	2016
LBC Credit Partners V, L.P.	100,000,000	69,664,552	17,312,199	40,424,961	61,677,145	1.13	22.04	2019
Marathon	200,000,000	96,022,008	858,534	205,000,000	119,783,125	1.26	17.08	
Marathon Secured Private Strategies Fund II	100,000,000	96,022,008	858,534	5,000,000	119,783,125	1.26	17.08	2019
Marathon Secured Private Strategies Fund III	100,000,000	0	0	100,000,000	0	0.00		2022

Investments	Commitments	Contributions	Distributions	Remaining Commitment	Market Value	Investment Multiple	IRR	Vintage Year
Merit Capital Partners	325,000,000	233,926,126	270,271,490	91,007,074	113,225,289	1.64	11.33	
Merit Mezzanine Fund IV, L.P.	75,000,000	70,178,571	139,120,463	4,821,429	787,345	1.99	11.58	2004
Merit Mezzanine Fund V, LP	75,000,000	71,902,041	79,877,706	3,097,959	33,107,721	1.57	9.43	2009
Merit Mezzanine Fund VI	100,000,000	91,845,514	51,273,321	8,087,687	79,330,223	1.42	14.61	2016
Merit Mezzanine Fund VII	75,000,000	0	0	75,000,000	0	0.00		2020
Oaktree Capital Management, LLC	650,000,000	277,040,920	41,856,555	377,959,101	310,137,405	1.27	14.55	
Oaktree Opportunities Fund X, L.P.	50,000,000	46,500,021	29,669,660	8,500,000	36,138,933	1.42	9.61	2015
Oaktree Opportunities Fund Xb, L.P.	100,000,000	60,000,000	0	40,000,000	85,821,900	1.43	17.02	2015
Oaktree Opportunities Fund XI	300,000,000	135,000,000	1,010,971	165,000,000	153,591,088	1.15	25.53	2020
Oaktree Real Estate Debt III	200,000,000	35,540,899	11,175,924	164,459,101	34,585,485	1.29	15.55	2020
PIMCO BRAVO	9,201,697	8,673,551	9,133,949	7,735,883	1,022,710	1.17	4.95	
PIMCO BRAVO Fund Onshore Feeder I	3,958,027	3,958,027	4,016,443	2,385,880	6,522	1.02	1.60	2014
PIMCO Bravo Fund OnShore Feeder II	5,243,670	4,715,524	5,117,506	5,350,003	1,016,187	1.30	5.52	2014
Prudential Global Investment Mgmt	600,000,000	474,509,486	518,132,781	170,020,341	149,848,868	1.41	10.43	
Prudential Capital Partners II, L.P.	100,000,000	97,930,132	145,671,152	11,049,052	3,907,329	1.53	9.26	2005
Prudential Capital Partners III, L.P.	100,000,000	102,823,075	174,159,760	13,686,991	2,171,871	1.71	14.06	2009
Prudential Capital Partners IV	100,000,000	112,567,121	114,554,739	2,136,397	33,625,394	1.32	8.30	2012
Prudential Capital Partners V, L.P.	150,000,000	147,909,672	83,338,088	6,427,387	96,894,985	1.22	8.46	2016
PGIM Capital Partners VI, L.P.	150,000,000	13,279,486	409,042	136,720,514	13,249,288	1.03	5.25	2020
Summit Partners	95,000,000	100,002,497	133,679,035	22,177,023	5,861,092	1.40	9.13	
Summit Subordinated Debt Fund III, L.P.	45,000,000	44,088,494	60,443,093	2,250,000	2,658,348	1.43	8.59	2004
Summit Subordinated Debt Fund IV, L.P.	50,000,000	55,914,003	73,235,942	19,927,023	3,202,744	1.37	9.98	2008
TCW	200,000,000	174,519,135	127,915,880	56,449,308	84,211,709	1.22	8.44	
TCW Direct Lending LLC	100,000,000	83,599,652	87,196,196	25,329,409	18,441,018	1.26	8.12	2014
TCW Direct Lending VII	100,000,000	90,919,484	40,719,684	31,119,899	65,770,691	1.17	9.05	2018
TSSP	275,000,000	129,930,459	30,901,480	172,003,448	131,252,948	1.25	15.23	
Sixth Street TAO Partners (B), L.P.	50,000,000	41,404,568	15,734,243	24,329,675	38,637,188	1.31	13.05	2018
Sixth Street TAO Partners (D), L.P.	100,000,000	48,479,942	11,437,722	59,000,036	48,348,973	1.23	21.35	2018
TSSP Opportunities Partners IV (A), L.P.	50,000,000	40,045,949	3,729,515	13,673,737	44,266,788	1.20	13.83	2018
Sixth Street Oppotunties Partners V	75,000,000	0	0	75,000,000	0	0.00		2021

Investments	Commitments	Contributions	Distributions	Remaining Commitment	Market Value	Investment Multiple	IRR	Vintage Year
Real Assets	4,247,571,518	3,864,247,805	2,512,706,784	669,691,250	2,051,984,859	1.18	4.31	
BlackRock	198,500,000	117,938,492	54,055,910	90,476,554	77,179,552	1.11	4.25	
BlackRock Global Renewable Power Fund II	98,500,000	97,789,849	53,874,942	10,625,197	57,929,176	1.14	4.74	2017
BlackRock Global Renewable Power Infrastructure III	100,000,000	20,148,643	180,968	79,851,357	19,250,376	0.96	-3.73	2019
EIG Global Energy Partners	450,000,000	469,824,722	362,577,470	77,704,481	155,413,945	1.10	2.46	
EIG Energy Fund XIV	100,000,000	113,459,470	95,309,310	2,761,129	3,869,868	0.87	-5.00	2007
EIG Energy Fund XV	150,000,000	161,871,503	154,367,874	22,871,323	20,296,990	1.08	1.87	2010
EIG Energy Fund XVI	200,000,000	194,493,749	112,900,285	52,072,029	131,247,087	1.26	6.07	2013
Encap Energy	400,000,000	425,060,550	361,443,656	9,997,731	176,995,186	1.27	7.54	
EnCap Energy Capital Fund VII, L.P.	100,000,000	105,406,230	137,949,713	0	3,449,229	1.34	14.49	2007
EnCap Energy Capital Fund VIII, L.P.	100,000,000	103,335,766	56,609,079	470,044	39,758,140	0.93	-1.52	2010
Encap Energy Fund IX	100,000,000	113,453,645	104,719,458	4,161,655	42,352,123	1.30	8.20	2012
EnCap Energy Capital Fund X, L.P.	100,000,000	102,864,908	62,165,406	5,366,031	91,435,694	1.49	11.71	2015
Energy & Minerals Group	680,000,000	664,573,978	368,250,697	57,575,279	531,200,944	1.35	7.18	
NGP Midstream & Resources, L.P.	100,000,000	103,565,615	179,560,149	17,857	7,256,874	1.80	13.40	2007
The Energy & Minerals Group Fund II, L.P.	100,000,000	106,674,084	104,295,500	170,365	106,206,612	1.97	12.97	2011
The Energy & Minerals Group Fund III, L.P.	200,000,000	201,327,783	22,410,545	1,284,543	104,430,794	0.63	-7.33	2014
The Energy & Minerals Group Fund IV, LP	150,000,000	161,141,907	57,504,938	14,023,899	167,361,031	1.40	9.19	2015
The Energy & Minerals Group Fund V	112,500,000	77,017,651	3,658,916	38,514,704	122,334,568	1.64	21.06	2019
The Energy & Minerals Group Fund V Accordion,	17,500,000	14,846,938	820,649	3,563,911	23,611,066	1.65	22.60	2019
Energy Capital Partners	450,000,000	429,874,485	348,079,647	111,761,226	244,802,848	1.38	10.56	
Energy Capital Partners II-A	100,000,000	85,722,480	112,434,332	29,749,110	5,417,029	1.37	8.98	2010
Energy Capital Partners III, L.P.	200,000,000	232,678,193	208,991,750	30,058,269	116,015,108	1.40	9.98	2013
Energy Capital Partners IV-A, LP	150,000,000	111,473,812	26,653,565	51,953,847	123,370,711	1.35	18.66	2017
Enervest Management Partners	100,000,000	98,604,267	79,512,622	9,489,431	56,035,412	1.37	7.94	
EnerVest Energy Institutional Fund XIV-A, L.P.	100,000,000	98,604,267	79,512,622	9,489,431	56,035,412	1.37	7.94	2015
First Reserve	500,000,000	542,680,886	267,253,431	8,157,276	130,112,751	0.73	- 7.78	
First Reserve Fund XI, L.P.	150,000,000	150,292,121	100,059,903	0	181,296	0.67	-8.72	2006
First Reserve Fund XII, L.P.	150,000,000	165,617,044	84,745,180	0	5,831,982	0.55	-14.33	2008
First Reserve Fund XIII, L.P.	200,000,000	226,771,721	82,448,348	8,157,276	124,099,472	0.91	-3.54	2013

Investments	Commitments	Contributions	Distributions	Remaining Commitment	Market Value	Investment Multiple	IRR	Vintage Year
Kohlberg, Kravis, Roberts & Co.	249,850,000	121,836,140	25,139,605	138,247,500	107,234,373	1.09	5.90	
KKR Global Infrastructure Investors III	149,850,000	121,836,140	25,139,605	38,247,500	107,234,373	1.09	5.90	2018
KKR Global Infrastructure Investors IV	100,000,000	0	0	100,000,000	0	0.00		2021
Merit Energy Partners	519,721,518	384,644,480	158,357,629	94,599,899	305,266,564	1.21	3.42	
Merit Energy Partners F-II, L.P.	100,000,000	59,522,861	32,619,000	0	6,060,301	0.65	-6.44	2006
Merit Energy Partners H	100,000,000	100,000,000	29,668,582	0	48,967,492	0.79	-3.73	2011
Merit Energy Partners I, L.P.	169,721,518	169,721,518	84,039,059	0	176,268,499	1.53	9.65	2014
Merit Energy Partners K, L.P.	150,000,000	55,400,101	12,030,988	94,599,899	73,970,272	1.55	28.45	2019
NGP	599,500,000	574,856,800	462,936,117	58,181,874	235,711,287	1.22	6.56	
Natural Gas Partners IX, LP	150,000,000	173,962,921	249,243,688	605,481	637,368	1.44	12.06	2007
NGP Natural Resources X, L.P.	150,000,000	148,720,924	125,225,975	1,279,076	18,195,012	0.96	-1.04	2011
NGP Natural Resources XI, L.P.	150,000,000	153,020,254	75,292,614	6,290,493	113,625,061	1.23	5.79	2014
NGP Natural Resources XII, L.P.	149,500,000	99,152,701	13,173,840	50,006,824	103,253,845	1.17	6.20	2017
Sheridan	100,000,000	34,353,005	25,100,000	13,500,000	32,031,997	1.66	13.64	
Sheridan Production Partners III-B, L.P.	100,000,000	34,353,005	25,100,000	13,500,000	32,031,997	1.66	13.64	2014

Investments	Commitments	Contributions	Distributions	Remaining Commitment	Market Value	Investment Multiple	IRR	Vintage Year
Real Estate	3,973,147,868	2,374,579,244	1,696,276,846	1,807,883,548	1,617,014,503	1.40	9.67	
Angelo, Gordon & Co.	550,000,000	413,086,988	155,415,815	157,070,000	372,450,724	1.28	10.67	
AG Asia Realty Fund III, L.P.	50,000,000	47,587,261	46,125,000	6,196,250	19,754,008	1.38	12.47	2016
AG Asia Realty Fund IV, L.P.	100,000,000	65,621,099	7,250,000	35,937,500	69,821,398	1.17	11.06	2018
AG Europe Realty Fund II, L.P.	75,000,000	68,859,240	12,028,384	12,768,750	80,070,958	1.34	10.66	2018
AG Europe Realty Fund III	75,000,000	26,937,885	0	46,687,500	28,908,620	1.07	6.56	2020
AG Realty Fund IX	100,000,000	92,141,126	66,000,000	11,650,000	64,516,858	1.42	9.05	2014
AG Realty Fund X, L.P.	150,000,000	111,940,377	24,012,431	43,830,000	109,378,882	1.19	14.64	2018
Blackstone	924,500,000	774,255,724	801,286,782	296,577,701	471,047,364	1.64	13.30	
Blackstone Real Estate Partners Asia II	74,500,000	61,213,758	6,220,869	21,515,151	67,764,217	1.21	11.31	2017
Blackstone Real Estate Partners Asia III	100,000,000	0	0	100,000,000	0	0.00		2021
Blackstone Real Estate Partners V	100,000,000	104,213,007	208,836,456	4,174,052	171,203	2.01	10.83	2006
Blackstone Real Estate Partners VI, L.P.	100,000,000	109,477,567	217,516,529	4,907,906	2,823,126	2.01	13.08	2007
Blackstone Real Estate Partners VII, LP	100,000,000	111,942,457	151,495,470	11,131,179	49,328,662	1.79	15.32	2011
Blackstone Real Estate VIII.TE.1 L.P.	150,000,000	171,712,292	145,137,172	21,760,728	138,924,647	1.65	17.19	2015
Blackstone Real Estate Partners IX, L.P.	300,000,000	215,696,643	72,080,287	133,088,685	212,035,510	1.32	25.18	2018
Blackstone Strategic Partners	75,000,000	77,552,724	65,750,877	1,002,022	1,514,016	0.87	-2.08	
Strategic Partners III RE, L.P.	25,000,000	25,987,864	15,252,523	9,006	92,349	0.59	-6.46	2005
Strategic Partners IV RE, L.P.	50,000,000	51,564,860	50,498,354	993,016	1,421,668	1.01	0.11	2008
Brookfield Asset Management Inc.	300,000,000	0	0	300,000,000	0	0.00		
Brookfield Strategic Real Estate Partners IV	300,000,000	0	0	300,000,000	0	0.00		2021
Carlyle Group	450,000,000	95,296,372	71,739,971	408,163,883	65,451,302	1.44	28.11	
Carlyle Realty Partners VIII, L.P.	150,000,000	95,296,372	71,739,971	108,163,883	65,451,302	1.44	28.11	2017
Carlyle Realty Partners IX	300,000,000	0	0	300,000,000	0	0.00		2021
Kohlberg, Kravis, Roberts & Co.	125,000,000	41,441,473	318,759	83,558,527	43,607,246	1.06	7.37	
KKR Real Estate Partners Americas III	125,000,000	41,441,473	318,759	83,558,527	43,607,246	1.06	7.37	2021
Landmark Partners	249,500,000	79,444,165	45,886,041	175,882,096	61,831,917	1.36	17.49	
Landmark Real Estate Partners VIII, L.P.	149,500,000	79,444,165	45,886,041	75,882,096	61,831,917	1.36	17.49	2016
Landmark Real Estate Partners IX	100,000,000	0	0	100,000,000	0	0.00		2021
Lubert Adler	174,147,868	92,982,744	72,128,675	82,414,787	52,078,032	1.34	14.76	
Lubert-Adler Real Estate Fund VII-B, L.P.	74,147,868	67,585,213	72,128,675	7,414,787	27,145,882	1.47	15.52	2017
Lubert-Adler Recovery and Enhancement Capital Fund	100,000,000	25,397,530	0	75,000,000	24,932,150	0.98	-4.25	2021

Investments	Commitments	Contributions	Distributions	Remaining Commitment	Market Value	Investment Multiple	IRR	Vintage Year
Oaktree Capital Management, LLC	200,000,000	54,475,519	34,370,464	180,000,000	31,582,394	1.21	112.91	
Oaktree Real Estate Opportunities Fund VIII	200,000,000	54,475,519	34,370,464	180,000,000	31,582,394	1.21	112.91	2020
Rockpoint	200,000,000	161,481,122	42,520,337	54,752,152	150,881,818	1.20	7.97	
Rockpoint Real Estate Fund V, L.P.	100,000,000	98,906,242	42,509,110	17,327,032	80,199,236	1.24	6.93	2014
Rockpoint Real Estate Fund VI, L.P.	100,000,000	62,574,880	11,227	37,425,120	70,682,582	1.13	16.04	2019
Rockwood	200,000,000	140,704,192	56,213,821	60,960,204	120,431,972	1.26	9.56	
Rockwood Capital RE Partners X, L.P.	100,000,000	94,027,411	56,119,269	7,657,118	65,610,355	1.29	8.72	2015
Rockwood Capital RE Partners XI	100,000,000	46,676,781	94,552	53,303,086	54,821,617	1.18	15.44	2019
Silverpeak Real Estate Partners	225,000,000	143,858,221	106,300,929	7,502,176	8,106,491	0.80	-3.59	
Silverpeak Legacy Pension Partners II, L.P.	75,000,000	73,062,894	92,027,822	7,502,176	482,839	1.27	4.18	2005
Silverpeak Legacy Pension Partners III, L.P.	150,000,000	70,795,327	14,273,108	0	7,623,652	0.31	-11.51	2008
TA Associates Realty	300,000,000	300,000,000	244,344,375	0	238,031,228	1.61	15.03	
Realty Associates Fund X	100,000,000	100,000,000	161,064,353	0	852,454	1.62	12.65	2012
Realty Associates Fund XI	100,000,000	100,000,000	79,982,296	0	98,747,074	1.79	15.01	2015
Realty Associates Fund XII	100,000,000	100,000,000	3,297,726	0	138,431,700	1.42	35.81	2018
Total	35,729,310,551	26,999,757,140	21,651,063,036	11,347,923,958	19,593,773,769	1.53	12.20	
Difference**					65,232,765			
Private Markets Total with Difference					19,659,006,534			

Private Markets Portfolio Status	Managers	Funds
PRIVATE EQUITY	59	182
PRIVATE CREDIT	18	41
REAL ASSETS	11	33
REAL ESTATE	13	33
Total	101	289

Notes

None of the data presented herein has been reviewed or approved by either the general partner or investment manager. The performance and valuation data presented herein is not a guarantee or prediction of future results. Ultimately, the actual performance and value of any investment is not known until final liquidation. Because there is no industry-standardized method for valuation or reporting comparisons of performance and valuation data among different investments is difficult.

Data presented in this report is made public pursuant to Minn. Stat. Chs. 13 and 13D, and Minn. Stat. § 11A.24, subd. 6(c). Additional information on private markets investments may be classified as non-public and not subject to disclosure.

^{*}Partnership interests transferred to the MSBI during 1Q2015. All data presented as of the transfer date.

^{**} Difference is from an in-kind stock distribution liquidating account, cash transactions posted to next day and distributions received in foreign currency during the month.



Participant Directed Investment Program

March 31, 2022



Quarterly Report

Participant Directed Investment Program

The Participant Directed Investment Program (PDIP) provides investment vehicles for a variety of retirement or other tax-advantaged savings plans. The objective of the Plan is to be competitive in the marketplace by providing quality investment options with low fees to its participants. Investment goals among the PDIP's many participants are varied.

- The Supplemental Investment Fund (SIF) is an investment platform that provides participants with the option to invest in many of the same pools as the Combined Fund in addition to a Stable Value Fund and a Money Market Fund. The Volunteer Firefighter Account is an option in the SIF for local firefighter entities that join the Statewide Voluntary Firefighter Plan administered by PERA. The investment vehicles are structured much like a family of mutual funds where participating entities buy or sell units in each fund. Participants may allocate their investments among one or more funds that are appropriate for their needs and are within statutory requirements and rules established by the participating organizations.
- The Mutual Fund Line-up is an investment platform that offers participants three sets of investment options. The first is a set of actively and passively managed mutual funds, a Stable Value Fund and a Money Market Fund. The second is a set of target date funds called Minnesota Target Retirement Funds. The third is a self-directed brokerage account window which offers thousands of mutual funds. The SBI has no direct management responsibilities for funds within the self-directed brokerage account window. Participants may allocate their investments among one or more accounts that are appropriate for their needs within the statutory requirements and rules established by the participating organizations.
- The SBI is responsible for the investment options provided in the two State Sponsored Savings Plans established under provisions of the Internal Revenue Code 529, the Minnesota College Savings Plan and Minnesota Achieving a Better Life Experience Plan (ABLE). The Minnesota College Savings Plan is an educational savings plan designed to help families save for qualified nationwide college costs. The SBI is responsible for the investments 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. to provide administrative, marketing, communication, recordkeeping and investment management services. The ABLE Plan is a savings plan designed to help individuals save for qualified disability expenses without losing eligibility for certain assistance programs. The plan is administered by the Department of Human Services (DHS). The SBI and DHS have jointly contracted with Ascensus to provide recordkeeping, administrative, and investment management services for the plan.

The investment returns shown in this report are calculated using a time-weighted rate of return formula. These returns are net of investment management fees and transaction costs. They do not, however, reflect administrative expenses that may be deducted by the retirement systems or other agencies to defray administrative costs.





Supplemental Investment Fund Summary

The Minnesota Supplemental Investment Fund (SIF) is a multi-purpose investment platform that offers a range of investment options to state and local public employees. This investment platform provides some or all of the investment options to the Public Employees Retirement Association (PERA) Defined Contribution Plan, local pension plans and the Statewide Volunteer Firefighter plan.

A wide diversity of investment goals exists among the Fund's participants. In order to meet those needs, the Fund has been structured much like a "family of mutual funds." Participants may allocate their investments among one or more accounts that are appropriate for their needs, within the statutory requirements and rules established by the participating organizations. Participation in the Fund is accomplished through the purchase or sale of shares in each account. All returns are net of investment management fees.

Investment Option Descriptions

- Balanced Fund a balanced portfolio utilizing both common stocks and bonds
- U.S. Stock Actively Managed Fund an actively managed, U.S. common stock portfolio.
- U.S. Stock Index Fund a passively managed, common stock portfolio designed to broadly track the performance of the U.S. stock market.
- Broad International Stock Fund a portfolio of non-U.S. stocks that incorporates both active and passive management.
- Bond Fund an actively managed, bond portfolio.
- Money Market Fund a portfolio utilizing short-term, liquid debt securities.
- Stable Value Fund a portfolio of stable value instruments, including security backed contracts and insurance company and bank investment contracts.
- Volunteer Firefighter Account a balanced portfolio only used by the Statewide Volunteer Firefighter Plan.

	Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	10 Year	Option Since
BALANCED FUND	\$112,686,711	-5.4%	5.8%	12.3%	10.7%	9.9%	01/1980
U.S. ACTIVELY MANAGED FUND	92,682,216	-6.6	8.8	18.7	16.3	14.6	07/1986
U.S. STOCK INDEX FUND	443,997,301	-5.3	12.3	18.5	15.6	14.4	07/1986
BROAD INTERNATIONAL STOCK FUND	151,924,804	-5.7	-1.4	8.2	7.3	6.2	09/1994
BOND FUND	107,328,254	-6.5	-4.4	2.5	2.8	2.9	07/1986
MONEY MARKET FUND	618,545,249	0.0	0.1	0.9	1.2	0.8	07/1986
STABLE VALUE FUND	1,707,365,891	0.4	1.9	2.3	2.3	2.2	11/1994
VOLUNTEER FIREFIGHTER ACCOUNT	148,881,216	-5.6	2.0	9.2	8.1	7.5	01/2010

Note:

The Market Values for the Money Market Fund, the Stable Value Fund, and the Total Supplemental Investment Fund also include assets held through other plans.





Balanced Fund

The primary investment objective of the Balanced Fund is to gain exposure to publicly traded U.S. equities, bond and cash in a diversified investment portfolio. The Fund seeks to maximize long-term real rates of return, while limiting short-run portfolio return volatility. The Balanced Fund is invested in a balanced portfolio of common stocks and bonds. Common stocks provide the potential for significant capital appreciation, while bonds act as a deflation hedge and provide portfolio diversification. The benchmark is a blend of 60% Russell 3000/35% Bloomberg U.S. Aggregate/5% 3 Month T-Bills.

	Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	10 Year
BALANCED FUND	\$112,686,711	-5.4%	5.8%	12.3%	10.7%	9.9%
SIF BALANCED FUND BENCHMARK		-5.2%	5.6%	11.7%	10.2%	9.5%
Excess		-0.2%	0.2%	0.6%	0.4%	0.4%

U.S. Actively Managed Fund

The U.S. Stock Actively Managed Fund's investment objective is to generate above-average returns from capital appreciation on common stocks. The U.S. Stock Actively Managed Fund is invested primarily in the common stocks of U.S. companies. The managers in the account also hold varying levels of cash.

	Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	10 Year
U.S. ACTIVELY MANAGED FUND	92,682,216	-6.6	8.8	18.7	16.3	14.6
Russell 3000		-5.3	11.9	18.2	15.4	14.3
Excess		-1.3	-3.2	0.4	0.9	0.3





U.S. Stock Index Fund

The investment objective of the U.S. Stock Index Fund is to generate returns that track those of the U.S. stock market as a whole. The Fund is designed to track the performance of the Russell 3000 Index, a broad-based equity market indicator. The Fund is invested 100% in common stock.

	Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	10 Year
U.S. STOCK INDEX FUND	\$443,997,301	-5.3%	12.3%	18.5%	15.6%	14.4%
Russell 3000		-5.3%	11.9%	18.2%	15.4%	14.3%
Excess		0.0%	0.4%	0.3%	0.2%	0.1%

Broad International Stock Fund

The investment objective of the Broad International Stock Fund is to earn a high rate of return by investing in the stock of companies outside the U.S. Portions of the Fund are passively managed and semi-passively managed. These portions of the Fund are designed to track and modestly outperform, respectively, the return of developed markets included in the MSCI World ex USA Index. A portion of the Fund is "actively managed" by several international managers and emerging markets specialists who buy and sell stocks in an attempt to maximize market value. The International Equity Benchmark is currently the MSCI ACWI ex USA (net).

	Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	10 Year
BROAD INTERNATIONAL STOCK FUND	151,924,804	-5.7	-1.4	8.2	7.3	6.2
International Equity Benchmark		-5.4	-1.5	7.5	6.7	5.5
Excess		-0.2	0.1	0.8	0.5	0.6





Bond Fund

The investment objective of the Bond Fund is to exceed the return of the broad domestic bond market by investing in fixed income securities. The Bond Fund invests primarily in high-quality, government and corporate bonds that have intermediate to long-term maturities, usually 3 to 20 years. The Bond Fund benchmark is the Bloomberg U.S. Aggregate.

	Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	10 Year
BOND FUND	\$107,328,254	-6.5%	-4.4%	2.5%	2.8%	2.9%
Bloomberg U.S. Aggregate		-5.9%	-4.2%	1.7%	2.1%	2.2%
Excess		-0.5%	-0.3%	0.8%	0.7%	0.7%

Money Market Fund

The investment objective of the Money Market Fund is to protect principal by investing in short-term, liquid U.S. Government securities. The Fund is invested entirely in high-quality, short-term U.S. Treasury and Agency securities. The average maturity of the portfolios is less than 90 days. Please note that the Market Value for the Money Market Fund reflects assets held through the Deferred Compensation Plan as well.

	Ending Market Value	Last Qtr	1 Year	3 Year	<u>5 Year</u>	10 Year
MONEY MARKET FUND	618,545,249	0.0	0.1	0.9	1.2	0.8
ICE BofA US 3-Month Treasury Bill		0.0	0.1	0.8	1.1	0.6
Excess		0.0	0.1	0.1	0.1	0.1





Stable Value Fund

The investment objectives of the Stable Value Fund are to protect investors from loss of their original investment and to provide competitive interest rates using somewhat longer-term investments than typically found in a money market fund. The Fund is invested in a well-diversified portfolio of high-quality fixed income securities with strong credit ratings. The Fund also invests in contracts issued by highly rated insurance companies and banks which are structured to provide principal protection for the Fund's diversified bond portfolios, regardless of daily market changes. The Stable Value Fund Benchmark is the 3-year Constant Maturity Treasury Bill +45 basis points. Please note that the Market Value for the Stable Value Fund reflects assets held through the Deferred Compensation Plan as well.

	Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	10 Year
STABLE VALUE FUND	\$1,707,365,891	0.4%	1.9%	2.3%	2.3%	2.2%
Fixed Interest Blended Benchmark		0.5%	1.3%	1.3%	1.8%	1.6%
Excess		-0.1%	0.6%	1.0%	0.5%	0.7%

Volunteer Firefighter Account

The Volunteer Firefighter Account is different than other SIF program options. It is available only to the local entities that participate in the Statewide Volunteer Firefighter Plan (administered by PERA) and have all of their assets invested in the Volunteer Firefighter Account. There are other volunteer firefighter plans that are not eligible to be consolidated that may invest their assets through other SIF program options. The investment objective of the Volunteer Firefighter Account is to maximize long-term returns while limiting short-term portfolio return volatility. The account is invested in a balanced portfolio of domestic equity, international equity, fixed income and cash. The benchmark for this account is 35% Russell 3000, 15% MSCI ACWI ex USA (net), 45% Bloomberg U.S. Aggregate, 5% 3 Month T-Bills.

	Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	10 Year
VOLUNTEER FIREFIGHTER ACCOUNT	148,881,216	-5.6	2.0	9.2	8.1	7.5
SIF Volunteer Firefighter Account BM		-5.3	2.0	8.5	7.6	7.0
Excess		-0.3	-0.0	0.7	0.5	0.5





The mutual fund investment line-up provides investment options to the Minnesota Deferred Compensation Plan (MNDCP), Unclassified Retirement Plan, Health Care Savings Plan, and the Hennepin County Retirement Plan. The MNDCP is a tax-sheltered retirement savings plan that is supplemental to public employees primary retirement plan. (In most cases, the primary plan is a defined benefit plan administered by TRA, PERA, or MSRS.) Participants can choose from active and passively managed stock and bond funds, a Stable Value Fund, a Money Market Fund, a set of 10 target date retirement fund options, and a brokerage window where participants can choose from hundreds of mutual funds.

	Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	10 Year	Option Since
VANGUARD TOTAL STOCK MARKET INSTITUTIONAL INDEX PLUS	\$732,939,298	-5.5%	11.7%				07/2019
VANGUARD INSTITUTIONAL INDEX PLUS	1,847,653,714	-4.6	15.6	18.9%	16.0%	14.6%	07/1999
VANGUARD DIVIDEND GROWTH	982,820,722	-2.0	17.3	16.4	15.2		10/2016
VANGUARD MID CAP INDEX	774,829,552	-6.3	8.8	15.7	13.0	13.0	01/2004
T. ROWE PRICE SMALL-CAP STOCK	958,063,712	-11.3	-4.5	13.8	13.4	13.4	04/2000
FIDELITY DIVERSIFIED INTERNATIONAL	352,020,614	-11.9	-0.4	11.7	9.1	7.9	07/1999
VANGUARD TOTAL INTERNATIONAL STOCK INDEX	351,169,473	-6.1	-1.8	7.8	6.8	5.8	07/2011
VANGUARD BALANCED INDEX	1,463,401,447	-5.6	5.3	11.7	10.2	9.5	12/2003
DODGE & COX INCOME	310,311,684	-5.2	-3.6	2.8	3.0	3.2	07/1999
VANGUARD TOTAL BOND MARKET INDEX	345,185,963	-6.0	-4.2	1.7	2.1	2.2	12/2003
2025 FUND	240,700,361	-3.5	4.1	8.4	7.4	7.1	07/2011
2030 FUND	207,037,348	-4.7	3.7	10.1	8.8	8.2	07/2011
2035 FUND	162,775,858	-5.8	3.1	11.0	9.5	8.8	07/2011
2040 FUND	124,922,941	-6.1	3.1	11.6	10.0	9.2	07/2011
2045 FUND	117,430,193	-6.2	3.5	12.2	10.5	9.6	07/2011
2050 FUND	96,853,069	-6.3	3.6	12.6	10.8	9.8	07/2011
2055 FUND	62,372,999	-6.3	3.7	12.9	11.0	9.9	07/2011
2060 FUND	50,336,602	-6.3	3.7	12.9	11.0	9.9	07/2011
2065 FUND	4,485,314	-6.3	3.7				04/2020
INCOME FUND	242,870,140	-3.2	3.2	7.0	6.0	5.0	07/2011
TD Ameritrade SDB	88,737,842						
TD Ameritrade SDB Roth	2,861,305						



LARGE CAP EQUITY		Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	Option Since
Vanguard Total Stock Market Institutional Index Plus (passive)	Large Cap US Equity						
A passive domestic stock portfolio of large and small companies that tracks the CRSP US Total Market Index.	VANGUARD TOTAL STOCK MARKET INSTITUTIONAL INDEX PLUS	\$732,939,298	-5.5%	11.7%			07/2019
	CRSP US Total Market Index		-5.4	11.7			07/2019
Vanguard Index Institutional Plus (passive)	Excess		-0.0	-0.0			
A passive domestic stock portfolio that tracks the S&P 500.	VANGUARD INSTITUTIONAL INDEX PLUS	1,847,653,714	-4.6	15.6	18.9%	16.0%	07/1999
Vanguard Dividend Growth (active) (1)	S&P 500		-4.6	15.6	18.9	16.0	07/1999
A fund of large cap stocks which is expected to outperform the S&P U.S.	Excess		-0.0	-0.0	-0.0	-0.0	
Dividend Growers Index, over time.	VANGUARD DIVIDEND GROWTH	982,820,722	-2.0	17.3	16.4	15.2	10/2016
MID CAP EQUITY	DIVIDEND GROWTH SPLICED INDEX		-5.2	12.3	16.1	14.7	10/2016
Vanguard Mid Cap Index (passive) (2)	Excess		3.2	5.0	0.3	0.5	
A fund that passively invests in companies with medium market capitalizations	Mid Cap US Equity						
that tracks the CRSP US Mid-Cap Index.	VANGUARD MID CAP INDEX	774,829,552	-6.3	8.8	15.7	13.0	01/2004
•	CRSP US Mid Cap Index		-6.3	8.9	15.7	13.0	01/2004
SMALL CAP EQUITY	Excess		-0.0	-0.0	0.0	-0.0	
T Rowe Price Small Cap (active)	Small Cap US Equity						
A fund that invests primarily in companies with small market capitalizations and is expected to outperform the Russell 2000 Index.	T. ROWE PRICE SMALL-CAP STOCK	958,063,712	-11.3	-4.5	13.8	13.4	04/2000
is emperior to competition the reason 2000 mac.	Russell 2000		-7.5	-5.8	11.7	9.7	04/2000
INTERNATIONAL EQUITY	Excess		-3.7	1.3	2.1	3.6	
Fidelity Diversified International (active)	International Equity						
A fund that invests primarily in stocks of companies located outside of the	FIDELITY DIVERSIFIED	352,020,614	-11.9	-0.4	11.7	9.1	07/1999

INTERNATIONAL

Excess

Excess

MSCI EAFE FREE (NET)

INTERNATIONAL STOCK INDEX

FTSE Global All Cap ex US Index

VANGUARD TOTAL



6.7

2.3

6.8

6.9

-0.1

07/1999

07/2011

07/2011

-5.9

-6.0

-6.1

-5.3

-0.7

351,169,473

1.2

-1.6

-1.8

-0.9

-0.9

7.8

3.9

7.8

8.0

-0.2

A fund that invests primarily in stocks of companies located outside of the

A fund that seeks to track the investment performance of the FTSE Global All

Cap ex US Index, an index designed to measure equity market performance in

United States and is expected to outperform the MSCI index of Europe,

Australasia and the Far East (EAFE), over time.

Vanguard Total International Stock Index (passive) (3)

developed and emerging markets, excluding the United States.



BALANCED		Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	Option Since
Vanguard Balanced Index (passive) (4)	Balanced Funds						
A fund that passively invests in a mix of domestic stocks and bonds. The fund is	VANGUARD BALANCED INDEX	\$1,463,401,447	-5.6%	5.3%	11.7%	10.2%	12/2003
expected to track a weighted benchmark of 60% CRSP US Total Market Index/40% Bloomberg U.S. Aggregate.	Vanguard Balanced Fund Benchmark		-5.6	5.3	11.8	10.3	12/2003
	Excess		0.0	0.0	-0.1	-0.0	
FIXED INCOME							
Dodge & Cox Income Fund (active)	Fixed Income						
A fund that invests primarily in investment grade securities in the U.S. bond	DODGE & COX INCOME	310,311,684	-5.2	-3.6	2.8	3.0	07/1999
market which is expected to outperform the Bloomberg U.S. Aggregate, over	Bloomberg U.S. Aggregate		-5.9	-4.2	1.7	2.1	07/1999
time.	Excess		0.7	0.5	1.2	0.9	
Vanguard Total Bond Market Index (passive)	VANGUARD TOTAL BOND MARKET INDEX	345,185,963	-6.0	-4.2	1.7	2.1	12/2003
A fund that passively invests in a broad, market weighted bond index that is expected to track the Bloomberg U.S. Aggregate.	Bloomberg U.S. Aggregate		-5.9	-4 2	17	21	12/2003
expected to track the broomberg c.s. Aggregate.	Excess		-0.0				12/2000
Money Market Fund (5)	LX0000		0.0	0.1	0.0	0.0	
A fund that invests in short-term debt instruments which is expected to	MONEY MARKET FUND	618,545,249	0.0	0.1	0.9	1.2	07/1986
outperform the return on 3 Month T-Bills.	ICE BofA US 3-Month Treasury	210,210,210	0.0	0.1			
•	Bill		0.0	0	0.0		0171000
STABLE VALUE	Excess		0.0	0.1	0.1	0.1	
Stable Value Fund (5)							
A portfolio composed of stable value instruments which are primarily	Stable Value						
investment contracts and security backed contracts. The fund is expected to	STABLE VALUE FUND	1,707,365,891	0.4	1.9	5.3% 11.7% 10.2% 12/2003 5.3 11.8 10.3 12/2003 0.0 -0.1 -0.0 3.6 2.8 3.0 07/1999 4.2 1.7 2.1 07/1999 0.5 1.2 0.9 4.2 1.7 2.1 12/2003 4.2 1.7 2.1 12/2003 0.1 0.0 -0.0 0.0 0.1 0.8 1.1 07/1986 0.1 0.1 0.1 0.1 1.9 2.3 2.3 11/1994		
outperform the return of the 3 year Constant Maturity Treasury +45 basis points,	Fixed Interest Blended Benchmark		0.5	1.3	1.3	1.8	11/1994

Excess



0.5

-0.1

0.6

1.0

over time.

⁽¹⁾ Prior to 09/20/2021 the benchmark was the NASDAQ US Dividend Achievers Select Index.

⁽²⁾ Prior to 02/01/2013 the benchmark was the MSCI US Mid-Cap 450 Index.

⁽³⁾ Prior to 06/01/2013 the benchmark was MSCI ACWI ex USA IMI.

⁽⁴⁾ Prior to 01/01/2013 the benchmark was 60% MSCI US Broad Market Index and 40% Bloomberg U.S. Aggregate.

⁽⁵⁾ Money Market and Stable Value are Supplemental Investment Fund options which are also offered to eligible plans that invest through other plans.



MN TARGET RETIREMENT ACCOUNTS

Target retirement funds offer a mix of investments that are adjusted over time to reduce risk and become more conservative as the target retirement date approaches. A participant only needs to make one investment decison by investing their assets in the fund that is closest to their anticipated retirement date.

T 1	D-1-	Datingues and Errords	
Tardet	Date	Retirement Funds	š

L FUIIUS	1 4 - 04 "	4 V	2 V	F V	Outlan Cines		Ending Market Value	14 04"	4 V	2 V	F V	Ontion Cine
Ending Market value	Last Qtr	1 fear	3 rear	5 Year	Option Since		Ending Warket value	Last Qtr	1 fear	3 fear	5 fear	Option Sinc
\$240,700,361	-3.5%	4.1%	8.4%	7.4%	07/2011	2050 FUND	\$96,853,069	-6.3%	3.6%	12.6%	10.8%	07/2011
	-3.4	4.2	8.4	7.5	07/2011	2050 FUND BENCHMARK		-6.0	3.9	12.7	10.9	07/2011
	-0.1	-0.1	-0.0	-0.0		Excess		-0.2	-0.3	-0.1	-0.1	
207,037,348	-4.7	3.7	10.1	8.8	07/2011	2055 FUND	62,372,999	-6.3	3.7	12.9	11.0	07/2011
	-4.6	3.8	10.1	8.8	07/2011	2055 FUND BENCHMARK		-6.1	4.0	13.0	11.1	07/2011
	-0.1	-0.1	-0.0	-0.0		Excess		-0.2	-0.3	-0.1	-0.1	
162,775,858	-5.8	3.1	11.0	9.5	07/2011	2060 FUND	50,336,602	-6.3	3.7	12.9	11.0	07/2011
	-5.7	3.3	11.0	9.6	07/2011	2060 FUND BENCHMARK		-6.1	4.0	13.0	11.1	07/2011
	-0.1	-0.2	-0.0	-0.0		Excess		-0.2	-0.2	-0.1	-0.1	
124,922,941	-6.1	3.1	11.6	10.0	07/2011	2065 FUND	4,485,314	-6.3	3.7			04/2020
	-5.9	3.4	11.6	10.1	07/2011	2065 FUND BENCHMARK		-6.1	4.0			04/2020
	-0.2	-0.2	-0.1	-0.0		Excess		-0.2	-0.3			
117,430,193	-6.2	3.5	12.2	10.5	07/2011	INCOME FUND	242,870,140	-3.2	3.2	7.0	6.0	07/2011
			40.0	10.5	07/2011	INCOME FUND BENCHMARK		-3.1	3.3	7.0	0.0	07/2011
	-6.0	3.7	12.2	10.5	07/2011	INCOME FUND BENCHWARK		-3.1	3.3	7.0	6.0	07/2011
	\$240,700,361 \$240,700,361 207,037,348 162,775,858	\$240,700,361	Ending Market Value Last Qtr 1 Year \$240,700,361 -3.5% 4.1% -3.4 4.2 -0.1 -0.1 207,037,348 -4.7 3.7 -4.6 3.8 -0.1 -0.1 162,775,858 -5.8 3.1 -5.7 3.3 -0.1 -0.2 124,922,941 -6.1 3.1 -5.9 3.4 -0.2 -0.2	Ending Market Value Last Qtr 1 Year 3 Year \$240,700,361 -3.5% 4.1% 8.4% -3.4 4.2 8.4 -0.1 -0.1 -0.0 207,037,348 -4.7 3.7 10.1 -4.6 3.8 10.1 -0.1 -0.1 -0.0 162,775,858 -5.8 3.1 11.0 -5.7 3.3 11.0 -0.1 -0.2 -0.0 124,922,941 -6.1 3.1 11.6 -5.9 3.4 11.6 -0.2 -0.2 -0.1	Ending Market Value Last Qtr 1 Year 3 Year 5 Year \$240,700,361 -3.5% 4.1% 8.4% 7.5 -3.4 4.2 8.4 7.5 -0.1 -0.1 -0.0 -0.0 207,037,348 -4.7 3.7 10.1 8.8 -4.6 3.8 10.1 8.8 -0.1 -0.1 -0.0 -0.0 162,775,858 -5.8 3.1 11.0 9.5 -5.7 3.3 11.0 9.6 -0.1 -0.2 -0.0 -0.0 124,922,941 -6.1 3.1 11.6 10.0 -5.9 3.4 11.6 10.1 -0.2 -0.2 -0.1 -0.0	Ending Market Value Last Qtr 1 Year 3 Year 5 Year Option Since \$240,700,361 -3.5% 4.1% 8.4% 7.4% 07/2011 -3.4 4.2 8.4 7.5 07/2011 -0.1 -0.1 -0.0 -0.0 207,037,348 -4.7 3.7 10.1 8.8 07/2011 -4.6 3.8 10.1 8.8 07/2011 -0.1 -0.1 -0.0 -0.0 -0.0 162,775,858 -5.8 3.1 11.0 9.5 07/2011 -5.7 3.3 11.0 9.6 07/2011 -0.1 -0.2 -0.0 -0.0 124,922,941 -6.1 3.1 11.6 10.0 07/2011 -5.9 3.4 11.6 10.1 07/2011 -0.2 -0.2 -0.1 -0.0	Seming Market Value	Separation Sep	Seeding Market Value	Separation Sep	Part Part	Ending Market Value Last Qt. 1 Year 3 Year 5 Year Option Since Ending Market Value Ending Market Value Last Qt. 1 Year 3 Year 5 Year \$240,700,361 -3.5% 4.1% 8.4% 7.5% 07/2011 2050 FUND \$96,853,069 -6.3% 3.6% 12.6% 10.8% 207,037,348 -0.1 -0.1 -0.0 -0.0 -0.0 2055 FUND 62,372,999 -6.3 3.7 12.9 11.0 4.6. 3.8 10.1 8.8 07/2011 2055 FUND 62,372,999 -6.3 3.7 12.9 11.0 4.6.7,75,858 -3.8 10.1 8.8 07/2011 2055 FUND 50,336,602 -6.3 3.7 12.9 11.0 4.2,775,858 -5.8 3.1 11.0 9.5 07/2011 2060 FUND 50,336,602 -6.3 3.7 12.9 11.0 124,922,941 -6.1 3.1 11.6 10.0 07/2011 2065 FUND 4,485,314 -6.3

Note: Each SSgA Fund benchmark is the aggregate of the returns of the Fund's underlying index funds weighted by the Fund's asset allocation





MN College Savings Plan Options

The Minnesota College Savings Plan is an education savings plan designed to help families set aside funds for future college costs. The SBI is responsible for the investments and the Minnesota Office of Higher Education (OHE) is responsible for the overall administration of the Plan.

The SBI and OHE contract jointly with TIAA to provide administrative, marketing, communication, recordkeeping and investment management services. Please see the next page for the performance as reported by TIAA.

ENROLLMENT-BASED MANAGED ALLOCATIONS - The Enrollment Year Investment Option is a set of single fund options representing the date your future student needs their college savings. The asset allocation adjusts automatically to a more conservative investment objective and level of risk as the enrollment year approaches. The managed allocation changed from Age-Based to Enrollment-Based on October 28, 2019.

RISK BASED ALLOCATIONS - The Risk Based Allocation Option offers three separate allocation investment options - Aggressive, Moderate and Conservative, each of which has a fixed risk level that does not change as the Beneficiary ages.

ASSET CLASS BASED ALLOCATIONS

U.S. LARGE CAP EQUITY INDEX - A passive domestic stock portfolio that tracks the S&P 500.

INTERNATIONAL EQUITY INDEX - A fund that passively invests in a mix of developed and emerging market equities. The fund is expected to track a weighted benchmark of 80% MSCI ACWI World ex USA and 20% MSCI Emerging Markets Free Index.

U.S. AND INTERNATIONAL EQUITY INDEX - A fund that invests in a mix of equities, both U.S. and international, across all capitalization ranges and real estate-related securities. The fund is expected to track a weighted benchmark of 60% Russell 3000, 24% International, 6% Emerging Markets, and 10% Real Estate Securities Fund.

PRINCIPAL PLUS INTEREST OPTION - A passive fund where contributions are invested in a Funding Agreement issued by TIAA-CREF Life. The funding agreement provides for a return of principal plus a guaranteed rate of interest which is made by the insurance company to the policyholder, not the account owners. The account is expected to outperform the return of the 3-month T-Bill.

EQUITY AND INTEREST ACCUMULATION - A fund that passively invests half of the portfolio in U.S. equities across all capitalization ranges and the other half in the same Funding Agreement issued by TIAA-CREF Life as described above. The fund is expected to track a weighted benchmark of 50% Russell 3000 and 50% 3-month T-Bill.

100% FIXED INCOME - A fund that passively invests in fixed income holdings that tracks the Bloomberg U.S. Aggregate and two active funds that invest in inflation-linked bonds and high yield securities. The fund is expected to track a weighted benchmark of 70% Bloomberg U.S. Aggregate, 20% inflation-linked bond, and 10% high yield.

MONEY MARKET - An active fund that invests in high-quality, short-term money market instruments of both domestic and foreign issuers that tracks the iMoneyNet Average All Taxable benchmark.

SOCIAL CHOICE EQUITY ALLOCATION – An actively managed fund that seeks to provide a favorable long-term total return that reflects the investment performance of the overall U.S. equity market while giving special consideration to companies whose activities are consistent with certain environmental, social and governance criteria.







MINNESOTA COLLEGE SAVINGS PLAN

Performance Statistics for the Period Ending: March 31, 2022

Total = \$1,847 Million

					A	nnualized		
Fund Name	Ending Market	3 Months	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date
2038/2039 Enrollment Option	\$7,623,630	-5.39%					0.00%	6/11/2021
2038-2039 Custom Benchmark		-4.94%					0.67%	
2036/2037 Enrollment Option	\$57,250,489	-5.37%	6.44%				12.16%	10/28/2019
2036-2037 Custom Benchmark		-4.93%	7.21%				12.20%	
2034/2035 Enrollment Option 2034-2035 Custom Benchmark	\$48,725,406	-5.30% -4.92%	6.01% 6.74%				11.56% 11.62%	10/28/2019
2032/2033 Enrollment Option 2032-2033 Custom Benchmark	\$55,336,560	-5.28% -4.91%	5.56% 6.22%				11.07% 11.10%	10/28/2019
2030/2031 Enrollment Option 2030-2031 Custom Benchmark	\$67,202,071	-5.11% -4.83%	4.81% 5.41%				10.11% 10.10%	10/28/2019
2028/2029 Enrollment Option 2028-2029 Custom Benchmark	\$84,834,041	-4.82% -4.57%	3.81% 4.25%				8.70% 8.56%	10/28/2019
2026/2027 Enrollment Option 2026-2027 Custom Benchmark	\$117,016,716	-4.42% -4.25%	2.85% 3.21%				7.41% 7.24%	10/28/2019
2024/2025 Enrollment Option 2024-2025 Custom Benchmark	\$162,124,018	-3.65% -3.59%	2.38% 2.41%				6.29% 5.92%	10/28/2019
2022/2023 Enrollment Option 2022-2023 Custom Benchmark	\$189,175,842	-2.53% -2.54%	1.82% 1.47%				4.69% 4.09%	10/28/2019
In School Option In School Custom Benchmark	\$281,285,005	-2.14% -2.17%	1.29% 0.88%				3.84% 3.01%	10/28/2019





MINNESOTA COLLEGE SAVINGS PLAN

Performance Statistics for the Period Ending: March 31, 2022

					Ar	nnualized		
Fund Name	Ending Market	3 Months	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date
U.S. and International Equity Option BB: U.S. and International Equity Option	\$318,227,818	-5.68% -5.26%	8.83% 9.62%	14.23% 14.27%	12.33% 12.25%	11.28% 11.37%	7.97% 8.71%	10/ 1/2001
Moderate Allocation Option BB: Moderate Allocation Option	\$95,069,614	-5.23% -5.02%	4.46% 4.90%	9.87% 9.85%	8.64% 8.63%	7.74% 7.92%	6.13% 6.66%	8/ 2/2007
100% Fixed-Income Option BB: 100% Fixed-Income Option	\$19,365,819	-4.71% -4.77%	-2.20% -2.18%	2.36% 2.67%	2.42% 2.72%	2.04% 2.43%	3.26% 3.83%	8/16/2007
International Equity Index Option BB: International Equity Index Option	\$8,996,724	-6.67% -6.11%	-1.65% -1.40%	7.03% 7.31%	6.46% 6.64%		5.13% 5.35%	6/18/2013
Money Market Option BB: Money Market Option	\$13,976,616	0.00% 0.01%	0.00% 0.02%	0.63% 0.53%	0.90% 0.78%	0.47% 0.41%	0.50% 0.45%	11/ 1/2007
Principal Plus Interest Option Citigroup 3-Month U.S. Treasury Bill	\$123,810,671	0.25% 0.03%	1.25% 0.06%	1.66% 0.76%	1.69% 1.09%	1.52% 0.60%	2.38% 1.23%	10/10/2001
Aggressive Allocation Option BB: Aggressive Allocation Option	\$73,189,586	-5.45% -5.13%	6.58% 7.26%	11.99% 12.10%	10.49% 10.47%		8.85% 8.84%	8/12/2014
Conservative Allocation Option BB: Conservative Allocation Option	\$17,429,916	-3.72% -3.69%	2.04% 1.95%	5.90% 5.86%	5.37% 5.33%		4.51% 4.54%	8/18/2014
Equity and Interest Accumulation Option BB: Equity and Interest Accumulation Option	\$7,448,242	-2.45% -2.60%	6.54% 6.06%	9.90% 9.64%	8.50% 8.39%		7.30% 7.19%	8/18/2014
U.S. Large Cap Equity Option BB: U.S. Large Cap Equity Option	\$96,260,004	-4.64% -4.60%	15.46% 15.65%	18.75% 18.92%	15.78% 15.99%		13.75% 13.87%	8/12/2014
Social Choice Equity Option BB: Social Choice Equity Option	\$668,824	-6.62% -5.28%					3.00% 4.57%	6/11/2021
Matching Grant Citigroup 3-Month U.S. Treasury Bill	\$1,778,357	0.25% 0.03%	1.25% 0.06%	1.66% 0.76%	1.69% 1.09%	1.52% 0.60%	2.38% 1.23%	3/22/2002



Performance as of 03/31/22

Total Market Value: \$ 27,513,293

												Inception
Fund Name Aggressive Option ABLE Aggressive Custom Benchmark Variance	\$ \$	arket Value 2,289,569	<u>% of Plan</u> 8.32%	1 Month 1.65 1.81 (0.16)	3 Months (6.21) (6.08) (0.13)	<u>YTD</u> (6.21) (6.08) (0.13)	1 Year 4.17 4.74 (0.57)	3 Year 12.08 12.53 (0.45)	<u>5 Year</u> 10.46 10.88 (0.42)	<u>10 Year</u>	10.81 11.33 (0.52)	<u>Date</u> 12/15/16
Moderately Aggressive Option ABLE Moderately Aggressive Custom Benchmark Variance	\$	2,564,280	9.32%	1.13 1.20 (0.07)	(5.66) (5.60) (0.06)	(5.66) (5.60) (0.06)	3.32 3.78 (0.46)	10.64 11.01 (0.37)	9.21 9.58 (0.37)		9.50 9.96 (0.46)	12/15/16
Growth Option ABLE Growth Custom Benchmark Variance	\$	3,640,604	13.23%	0.53 0.59 (0.06)	(5.21) (5.14) (0.07)	(5.21) (5.14) (0.07)	2.37 2.79 (0.42)	9.06 9.43 (0.37)	7.86 8.23 (0.37)		8.11 8.56 (0.45)	12/15/16
Moderate Option ABLE Moderate Custom Benchmark Variance	\$	3,216,016	11.69%	0.00 (0.01) 0.01	(4.66) (4.68) 0.02	(4.66) (4.68) 0.02	1.44 1.79 (0.35)	7.46 7.78 (0.32)	6.48 6.83 (0.35)		6.72 7.11 (0.39)	12/15/16
Moderately Conservative Option ABLE Moderately Conservative Custom Benchmark Variance	\$	3,135,523	11.40%	(0.15) (0.16) 0.01	(3.37) (3.40) 0.03	(3.37) (3.40) 0.03	0.94 1.13 (0.19)	5.42 5.63 (0.21)	4.78 5.06 (0.28)		4.94 5.24 (0.30)	12/15/16
Conservative Option ABLE Conservative Custom Benchmark Variance	\$	4,736,104	17.21%	(0.26) (0.32) 0.06	(1.55) (1.62) 0.07	(1.55) (1.62) 0.07	0.18 0.22 (0.04)	2.58 2.66 (0.08)	2.45 2.61 (0.16)		2.51 2.68 (0.17)	12/15/16
Checking Option	\$	7,931,197	28.83%									03/30/17

MINNESOTA ACHIEVE A BETTER LIFE EXPERIENCE

The Minnesota Achieve a Better Life Experience Plan (ABLE)

The plan is administered by the Department of Human Services (DHS).

The SBI and DHS have jointly contracted with Ascensus to provide recordkeeping, administrative, and investment management services for the plan.

RISK BASED ALLOCATIONS

The plan offers seven different allocation investment options: Aggressive, Moderately Aggressive, Growth, Moderate, Moderately Conservative, Conservative, and Checking. Each allocation is based on a fixed risk level.





Non-Retirement March 31, 2022



Quarterly Report



Non-Retirement Funds

The SBI manages funds for trusts and programs created by the Minnesota State Constitution and Legislature.

- The Permanent School Fund is a trust established for the benefit of Minnesota public schools.
- The Environmental Trust Fund is a trust established for the protection and enhancement of Minnesota's environment. It is funded with a portion of the proceeds from the state's lottery.
- The Minnesota Workers Compensation Assigned Risk Plan provides worker compensation insurance for companies unable to obtain coverage through private carriers.
- The Closed Landfill Investment Fund is a trust created by the Legislature to invest money to pay for the long-term costs of maintaining the integrity of landfills in Minnesota once they are closed.
- Other Post-Employment Benefits Accounts (OPEB) are the assets set aside by local units of government for the payment of retiree benefits trusteed by the Public Employees Retirement Association.
- Miscellanous Trust Accounts are other small funds managed by the SBI for a variety of purposes.

All equity, fixed income, and cash assets for these accounts are managed externally by investment management firms retained by the SBI.



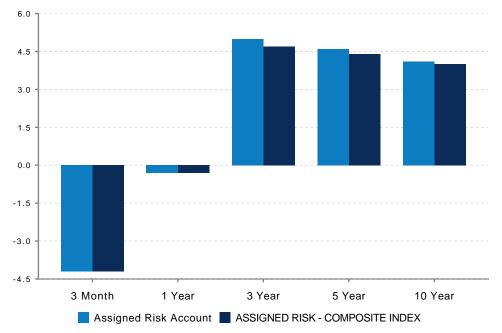


Assigned Risk Plan

The Assigned Risk plan has two investment objectives: to minimize the mismatch between assets and liabilities and to provide sufficient liquidity for the payment of ongoing claims and operating expenses.

The Assigned Risk Plan is invested in a portfolio of common stocks and bonds. The equity segment is passively managed to track the performance of the S&P 500.

The fixed income benchmark is the Bloomberg U.S. Government Intermediate Index. The total fund benchmark is a combination of the fixed income and equity benchmarks, weighted according to the total fund asset allocation targets of 80% fixed income and 20% equities. The actual asset mix will fluctuate and is shown in the graph below.



	Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	10 Year
Assigned Risk Account	\$267,323,372	-4.2%	-0.3%	5.0%	4.6%	4.1%
EQUITIES	54,895,136	-4.6	15.6	18.9	16.0	14.2
FIXED INCOME	212,428,236	-4.1	-4.2	1.2	1.5	1.4
ASSIGNED RISK - COMPOSITE INDEX		-4.2	-0.3	4.7	4.4	4.0
Excess		0.0	0.0	0.3	0.3	0.1
S&P 500		-4.6	15.6	18.9	16.0	14.6
Bloomberg U.S. Government: Intermediate		-4.2	-4.2	1.0	1.3	1.3

Note: Since 12/1/2017 the Assigned Risk equity segment has been managed by Mellon. From 1/17/2017-11/30/2017 it was managed internally by SBI staff. Prior to 1/17/2017 the equity segment was managed by SSgA (formerly GE Investment Mgmt.). RBC manages the fixed income segment of the Fund.



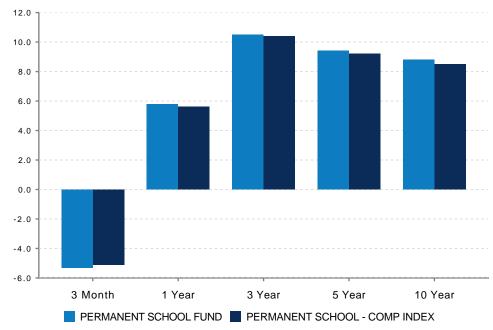


Permanent School Fund

The investment objective of the Permanent School Fund is to produce a growing level of spendable income, within the constraints of maintaining adequate portfolio quality and liquidity. The income from the portfolio is transferred to the school endowment fund and distributed to Minnesota's public schools.

The Permanent School Fund is invested in a balanced portfolio of common stocks and bonds. Common stocks provide the potential for significant capital appreciation, while bonds provide portfolio diversification and a more stable stream of current income.

The stock segment is passively managed to track the performance of the S&P 500. The bond segment is actively managed to add incremental value through sector, security and yield curve decisions. The fixed income benchmark is the Bloomberg U.S. Aggregate. The total fund benchmark is a combination of the fixed income and equity benchmarks, weighted according to the total fund asset allocation targets of 2% cash, 50% equity, and 48% fixed income. The actual asset mix will fluctuate and is shown in the graph below.



	Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	10 Year
PERMANENT SCHOOL FUND	\$1,951,583,074	-5.3%	5.8%	10.5%	9.4%	8.8%
CASH EQUIVALENTS	40,258,448	0.0	0.1	0.8	1.1	0.7
EQUITIES	998,459,779	-4.6	15.6	18.9	16.0	14.6
FIXED INCOME	912,864,847	-6.2	-4.2	2.0	2.4	2.8
PERMANENT SCHOOL - COMP INDEX		-5.1	5.6	10.4	9.2	8.5
Excess		-0.2	0.2	0.1	0.2	0.3
S&P 500		-4.6	15.6	18.9	16.0	14.6
Bloomberg U.S. Aggregate		-5.9	-4.2	1.7	2.1	2.2

Note: Since 12/1/2017 the equity segment has been managed by Mellon and the fixed income segment by Prudential. Prior to 12/1/2017 both segments were managed internally by SBI staff. Prior to 7/1/97 the Fund allocation was 100% fixed income.



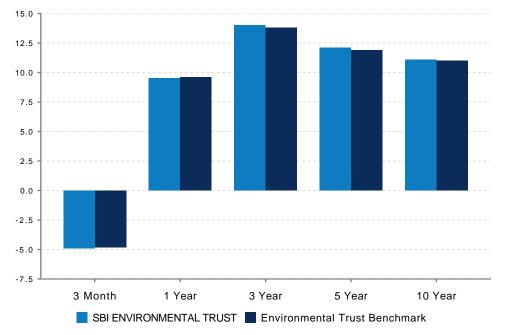


Environmental Trust Fund

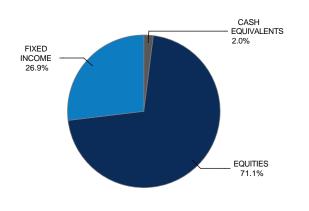
The objective of the Environmental Trust Fund is to increase the market value of the Fund over time in order to increase the annual amount made available for spending within the constraints of maintaining adequate portfolio quality and liquidity.

The Environmental Trust Fund is invested in a balanced portfolio of common stocks and bonds. Common stocks provide the potential for significant capital appreciation, while bonds act as a deflation hedge and provide portfolio diversification.

The bond segment is actively managed to add incremental value through sector, security and yield curve decisions. The stock segment is passively managed to track the performance of the S&P 500. The fixed income benchmark is the Bloomberg U.S. Aggregate. The total fund benchmark is a combination of the fixed income and equity benchmarks, weighted according to the total fund asset allocation targets of 2% cash, 70% equities, and 28% fixed income. The actual asset mix will fluctuate and is shown in the graph below.



	Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	10 Year
SBI ENVIRONMENTAL TRUST	\$1,667,041,621	-4.9%	9.5%	14.0%	12.1%	11.1%
CASH EQUIVALENTS	33,534,587	0.0	0.1	0.8	1.1	0.7
EQUITIES	1,185,329,608	-4.6	15.6	18.9	16.0	14.6
FIXED INCOME	448,177,425	-6.2	-4.2	2.0	2.4	2.8
Environmental Trust Benchmark		-4.8	9.6	13.8	11.9	11.0
Excess		-0.1	-0.1	0.2	0.2	0.2
S&P 500		-4.6	15.6	18.9	16.0	14.6
Bloomberg U.S. Aggregate		-5.9	-4.2	1.7	2.1	2.2



Note: Since 12/1/2017 the equity segment has been managed by Mellon and the fixed income segment by Prudential. Prior to 12/1/2017 both segments were managed internally by SBI staff. From 7/1/94 to 7/1/99, the Fund's target allocation and benchmark was 50% fixed income and 50% stock. Prior to 7/1/94 the Fund was invested entirely in short-term instruments as part of the Invested Treasurer's Cash pool.

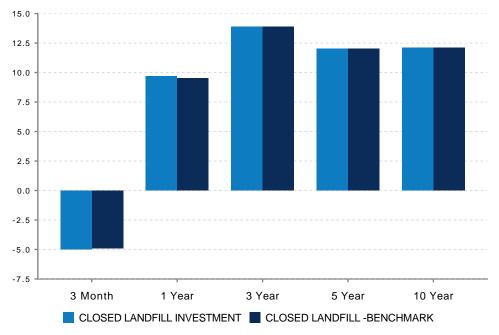




Closed Landfill Investment Fund

The investment objective of the Closed Landfill Investment Fund is to increase the market value of the Fund and to reduce volatility to meet future expenditures. By statute, the assets of the Fund were unavailable for expenditure until after the fiscal year 2020 to pay for long-term costs of maintaining the integrity of landfills in Minnesota once they are closed. In FY 2011, \$48 million was transferred out of the general fund leaving a balance of \$1 million in the account. Legislation was enacted in 2013 to replenish the principal and earnings back into the fund and in FY 2014 a repayment was made in the amount of \$64.2 million. In 2015, legislation was passed which repealed any further repayments.

The bond segment is actively managed to add incremental value through sector, security and yield curve decisions. The stock segment is managed to passively track the performance of the S&P 500. The fixed income benchmark is the Bloomberg U.S. Aggregate. The total fund benchmark is a combination of the fixed income and equity benchmarks, weighted according to the total fund asset allocation targets of 70% equities and 30% fixed income. The actual asset mix will fluctuate and is shown in the graph below.



	Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	10 Year
CLOSED LANDFILL INVESTMENT	\$133,223,205	-5.0%	9.7%	13.9%	12.0%	12.1%
EQUITIES	93,244,106	-4.6	15.6	18.9	16.0	14.6
FIXED INCOME	39,979,099	-6.2	-4.2	2.0	2.4	
CLOSED LANDFILL -BENCHMARK		-4.9	9.5	13.9	12.0	12.1
Excess		-0.1	0.2	0.0	0.1	0.0
S&P 500		-4.6	15.6	18.9	16.0	14.6
Bloomberg U.S. Aggregate		-5.9	-4.2	1.7	2.1	2.2

Note: Since 12/1/2017 the equity segment has been managed by Mellon and the fixed income segment by Prudential. Prior to 12/1/2017 both segments were managed internally by SBI staff. Prior to 9/10/14 the Fund's target allocation and benchmark was 100% domestic equity.





	Ending Market Value	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
NON RETIREMENT EQUITY INDEX - MELLON	3,231,199,995	-4.6	6.5	15.6	18.9	16.0	14.6	10.5	07/1993
S&P 500 INDEX (DAILY)		-4.6	6.5	15.6	18.9	16.0	14.6	10.5	07/1993
Excess		-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.1	
NON RETIREMENT FIXED INCOME - PRUDENTIAL	1,612,095,149	-6.2	-6.2	-4.2	2.0	2.4	2.8	5.5	07/1994
Bloomberg U.S. Aggregate		-5.9	-5.9	-4.2	1.7	2.1	2.2	5.0	07/1994
Excess		-0.2	-0.3	-0.1	0.3	0.3	0.5	0.5	
RBC	212,428,285	-4.1	-4.8	-4.2	1.2	1.5	1.4	4.5	07/1991
RBC Custom Benchmark		-4.2	-4.7	-4.2	1.0	1.3	1.3	4.5	07/1991
Excess		0.1	-0.0	-0.0	0.1	0.1	0.1	-0.1	
MET COUNCIL OPEB BOND POOL	98,070,669	-3.2	-3.8	-3.0	0.8			1.4	02/2018
NON RETIREMENT CASH ACCOUNT	106,566,090	0.0	0.1	0.1	0.8			1.2	12/2017
ICE BofA US 3-Month Treasury Bill		0.0	0.1	0.1	0.8			1.2	12/2017
Excess		-0.0	0.0	0.0	-0.0			0.0	

Note:

RBC is the manager for the fixed income portion of the Assigned Risk account. RBC changed its name from Voyageur Asset Management on 1/1/2010. The current benchmark is the Bloomberg U.S. Government Intermediate Index. Prior to 7/1/11 the Voyageur Custom Index was 10% 90 day T-Bill, 25% Merrill 1-3 Government, 15% Merrill 3-5 Government, 25% Merrill 5-10 Government, 25% Merrill Mortgage Master.

Prior to 12/1/17 the Non Retirement Equity Index and Non Retirement Fixed Income accounts were managed internally by SBI staff.

In addition to the Non-Retirement Funds listed on the previous pages, the Non Retirement Equity Index and the Non Retirement Fixed Income accounts also include the assets of various smaller Miscellaneous Trust Accounts and Other Post Employment Benefits.







State Cash March 31, 2022





State Cash Accounts

Invested Treasurer's Cash

The Invested Treasurer's Cash Pool (ITC) represents the balances in more than 400 separate accounts that flow through the Minnesota State Treasury. These accounts vary greatly in size. The ITC contains the cash balances of certain State agencies and non-dedicated cash in the State Treasury.

The investment objectives of the ITC, in order of priority, are as follows:

- Safety of Principal. To preserve capital.
- Liquidity. To meet cash needs without the forced sale of securities at a loss.
- Competitive Rate of Return. To provide a level of current income consistent with the goal of preserving capital.

The SBI seeks to provide safety of principal by investing all cash accounts in high quality, liquid, short term investments. These include U.S. Treasury and Agency issues, repurchase agreements, bankers acceptances, commercial paper, and certificates of deposit.

Beginning in January 2003, the Treasurer's Cash Pool is measured against the iMoneyNet, All Taxable Money Fund Report Average.

	Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	10 Year
Treasurer's Cash	\$21,424,184,469	-1.0	-1.1	0.6	1.0	0.6
iMoneyNet Money Fund Average-All Taxable		0.0	0.0	0.6	0.8	0.4

Other State Cash Accounts

Due to differing investment objectives, strategies, and time horizons, some State agencies' accounts are invested seperately. These agencies direct the investments or provide the SBI with investment guidelines and the SBI executes on their behalf. Consequently, returns are shown for informational purposes only and there are no benchmarks for these accounts.

	Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	10 Year
Debt Service	\$68,028,654	-2.9	-1.8	1.7	2.3	





Addendum

Benchmark Definitions

Active Domestic Equity Benchmark:

A weighted composite each of the individual active domestic equity managers' benchmarks. Effective 3/1/2017 the calculation uses the average weight of the manager relative to the total group of active managers during the month. Prior to 3/1/2017 the beginning of the month weight relative to the total group was used.

Benchmark DM:

Since 6/1/08 the developed markets managers' benchmark, "Benchmark DM," is the Standard (large + mid) MSCI World ex USA (net). From 10/1/07 through 5/31/08 the benchmark was the Provisional Standard MSCI World ex USA (net). From 10/1/03 to 9/30/07 the benchmark was the MSCI World ex USA (net). Prior to that date, it was the MSCI EAFE Free (net), including from 10/1/01 to 5/31/02 when it was the Provisional MSCI EAFE Free (net).

Benchmark EM:

Since 6/1/08 the emerging markets managers' benchmark, "Benchmark EM," is the Standard (large + mid) MSCI Emerging Markets Free (net). From 10/1/07 through 5/31/08 the benchmark was the Provisional Standard MSCI Emerging Markets Free (net). From 1/1/01 to 9/30/07 the benchmark was the MSCI Emerging Markets Free (net), including from 10/1/01 to 5/31/02 when it was the Provisional MSCI Emerging Markets Free (net). Prior to 1/1/01, it was the MSCI Emerging Markets Free (gross).

Combined Funds Composite Index:

The Composite Index performance is calculated by multiplying the beginning of month Composite weights by the monthly returns of the asset class benchmarks. Asset class weights for Private Markets - Invested and Private Markets - Uninvested are reset at the start of each month. From 1/1/2018-2/28/2019 the Transitional Policy Target was used to reflect the addition of Treasuries to the Fixed Income portfolio. From 7/1/2016-12/31/2016 the composite weights were set to match actual allocation as the portfolio was brought into line with the new Strategic Asset Allocation Policy Target. 7/1/2016 to 12/1/2020 the uninvested portion of Private Markets allocated to Public Equity. Prior to 7/1/2016 the uninvested portion of the Private Markets was invested in Fixed Income and the Composite Index was adjusted accordingly. When the Strategic Asset Allocation Policy Target changes, so does the Composite Index.

Core Bonds Benchmark:

The Core Bonds Benchmark is the Bloomberg U.S. Aggregate. Prior to 2016 this index was called the Barclays Agg. Prior to 9/18/2008 this index was called the Lehman Brothers Aggregate Bond Index. From 7/1/84-6/30/94 the asset class benchmark was the Salomon Brothers Broad Investment Grade Index. The SBI name for this benchmark changed from Fixed Income to Core Bonds on March 31, 2020.

Credit Plus Benchmark:

40% Bloomberg US Corporate Bond Index, 30% Bloomberg US Mortgage Backed Index, 20% BofA ML US High Yield BB-B Cash Pay Constrained Index, and 10% JPM EMBI Global Diversified Index.



SBI MINNESOTA STATE BOARD OF INVESTMENT

Addendum

Domestic Equity Benchmark:

Since 12/1/2020 the benchmark is the Russell 3000. From 1/1/2019-11/30/2020 the benchmark was 90% Russell 1000 and 10% Russell 2000. From 10/1/2003 to 12/31/2018 it was the Russell 3000. From 7/1/1999 to 9/30/2003, it was the Wilshire 5000 Investable Index. From 11/1/1993 to 6/30/1999, the target was the Wilshire 5000 as reported with no adjustments. Prior to 11/1/1993, the Wilshire 5000 was adjusted to reflect SBI mandated restrictions, which included liquor and tobacco, American Home Products and South Africa.

Fixed Interest Blended Benchmark: Since 6/1/2002, equals 3 Year Constant Maturity Treasury Yield + 45 bps. Prior to this change it was the 3 Year Constant Maturity Treasury Yield + 30 bps.

International Equity Benchmark:

Since 12/1/2020 equals the MSCI ACWI ex-US(Net). From 1/1/2018 to 1/1/2019 it was 75% MSCI World ex USA Index (net) and 25% MSCI Emerging Markets Index (net). From 6/1/08 to 12/31/2018 the International Equity asset class target was the Standard (large + mid) MSCI ACWI ex U.S. (net). From 10/1/07 through 5/31/08 the benchmark was the Provisional Standard MSCI ACWI ex U.S. (net). From 10/1/03 to 9/30/07 the target was MSCI ACWI ex U.S. (net). From 1/1/01 to 9/30/03, the target was MSCI EAFE Free (net) plus Emerging Markets Free (gross). From 7/1/99 to 9/30/03, the weighting of each index fluctuated with market capitalization. From 10/1/01 to 5/31/02 all international benchmarks being reported were the MSCI Provisional indices. From 12/31/96 to 6/30/99 the benchmark was fixed at 87% EAFE Free (net)/13% Emerging Markets Free (gross). On 5/1/96, the portfolio began transitioning from 100% EAFE Free (net) to the 12/31/96 fixed weights. Prior to 5/1/96 it was 100% the EAFE Free (net).

Multi-Asset Credit Benchmark:

33.33% ICE BofA High Yield, 33.33% S&P LSTA Leveraged Loan, and 33.33% JPM EMBI Global Diversified Index.

Passive Domestic Equity Benchmark:

A weighted average of the Russell 1000, Russell 2000 and Russell 3000 effective 11/1/2018. From 10/1/2016 to 11/1/2018 it was a weighted average of the Russell 1000 and Russell 3000. From 10/1/2003 to 10/1/2016 it was equal to the Russell 3000. From 7/1/2000 to 9/30/2003, it was the Wilshire 5000 Investable Index. From 11/1/1993 to 6/30/2000, the target was the Wilshire 5000 as reported with no adjustments. Prior to 11/1/1993, the Wilshire 5000 was adjusted to reflect SBI mandated restrictions, which included liquor and tobacco, American Home Products and South Africa.

Passive Manager Benchmark:

Russell 3000 effective 10/1/2003. From 7/1/2000 to 9/30/2003, it was the Wilshire 5000 Investable Index. From 11/1/1993 to 6/30/2000, the target was the Wilshire 5000 as reported with no adjustments. Prior to 11/1/1993, the Wilshire 5000 was adjusted to reflect SBI mandated restrictions, which included liquor and tobacco, American Home Products and South Africa.





Addendum

Public Equity Benchmark:

Since 12/1/2020 it is 67% Russell 3000 and 33% MSCI ACWI ex-US(net). From 1/1/2019 to 12/1/2020 it was 60.3% Russell 1000, 6.7% Russell 2000, 24.75% MSCI World Ex US (net), and 8.25% MSCI EM (net). From 7/1/2017 thru 12/31/2018 it was 67% Russell 3000 and 33% MSCI ACWI ex USA. Prior to 6/30/16 the returns of Domestic and International Equity were not reported as a total Public Equity return. 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 USA until it reached 67% and 33%.

Return Seeking BM:

A weighted composite of each individual return seeking fixed income managers' benchmarks. The calculation uses the average weight of the manager relative to the total group of active managers during the month.

Semi-Passive Domestic Equity Benchmark: Russell 1000 index effective 1/1/2004. Prior to 1/1/2004 it was the Completeness Fund benchmark.

Total Fixed Income Benchmark:

Since 7/1/2020 the Total Fixed Income benchmark is 40% Bloomberg U.S. Aggregate Index/ 40% Bloomberg Treasury 5+ Years Index/ 20% ICE BofA US 3-Month Treasury Bill. From 4/1/2019-6/30/2020 it was 50% Bloomberg Aggregate and 50% Bloomberg Treasury 5+ Years Index. From 2/1/2018-3/31/19 the weighting of this benchmark reflected the relative weights of the Core Bonds and Treasuries allocations in the Combined Funds Composite.

Zevenbergen Benchmark: Russell 3000 Growth index effective 1/1/2021. Prior to 1/1/2021 it was the Russell 1000 Growth Index.



