**Quarterly Report** 



# **Comprehensive Performance Report**

June 30, 2018



## **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.

#### **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 participanting organizations. At this time, the assets of various retirement programs, including local firefighter groups, are included here.

#### **Non-Retirement**

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.



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## Funds Under Management



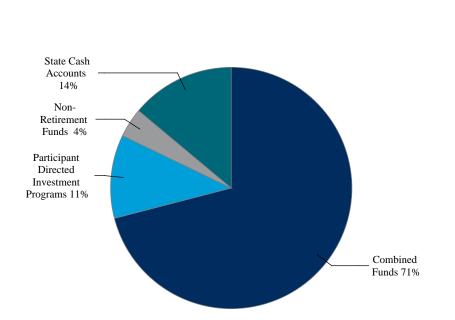
	<b>§</b> Millions
COMBINED FUNDS	
Combined Funds	\$68,288
PARTICIPANT DIRECTED INVESTMENT PROGRAMS	
Supplemental Investment Fund*	3,731
State Deferred Compensation Plan**	5,612
Minnesota College Savings Plan	1,422
Achieve a Better Life Experience	3
NON-RETIREMENT FUNDS	
Assigned Risk Plan	319
Permanent School Fund	1,391
Environmental Trust Fund	1,116
Closed Landfill Investment Fund	89
Miscellaneous Trust Accounts	236
Ohter Post Employment Benefits Accounts	636
STATE CASH ACCOUNTS	
Treasurer's Cash	13,124
Other State Cash Accounts	277
TOTAL	
SBI AUM	96,245

\* Includes assets of smaller retirement funds which are invested with the SBI but are not

included in the Combined Funds

\*\* Does not include the Stable Value and Money Market accounts that are used by Deferred Compensation and Supplemental Investment Fund

Note: Differentials within column amounts may occur due to rounding





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<b>Participant Directed Investment Program</b> Supplemental Investment Fund Deferred Compensation Program Minnesota College Savings Plan Achieve a Better Life Experience	Page 69	
Non-Retirement Funds Assigned Risk Plan Permanent School Fund Environmental Trust Fund Closed Landfill Investment Fund Non-Retirement Managers State Cash Accounts Invested Treasurer's Cash Other State Cash Accounts	Page 85 Page 93	Note: Throughout this report performance is calculated net of investment management fees, aggregates include terminated managers, and returns for all periods greater than one year are annualized. Inception Date and 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 historical benchmark details, please refer to the addendum of this report. Inception to date return information is included for manager accounts and total asset class but not other aggregates becuase of portfolio management decisions to group managers in different aggregates over time.
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# **Combined Funds**

# June 30, 2018



## **Combined Funds Summary**



Combined Funds Change in Market Value (\$Millions)
One Quarter
COMBINED FUNDS

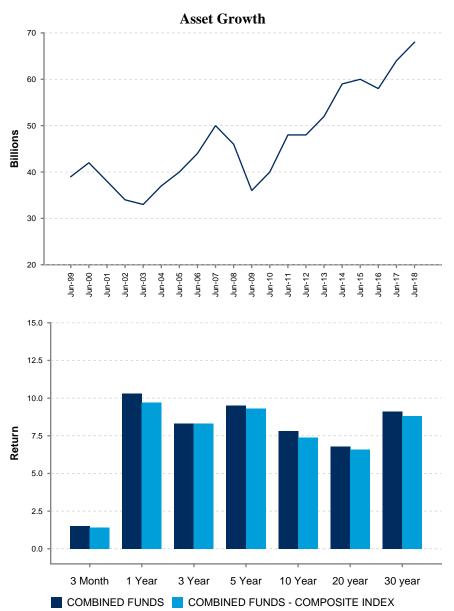
Beginning Market Value	\$67,819
Net Contributions	-567
Investment Return	1,037
Ending Market Value	68,288

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.

	Qtr	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	1.5%	10.3%	10.3%	8.3%	9.5%	7.8%	6.8%	9.1%
COMBINED FUNDS - COMPOSITE INDEX	1.4	9.7	9.7	8.3	9.3	7.4	6.6	8.8
Excess	0.2	0.6	0.6	0.0	0.2	0.4	0.1	0.3





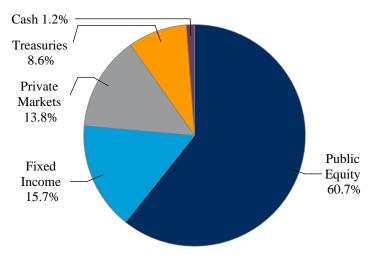
## **Combined Funds Summary**



#### 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.

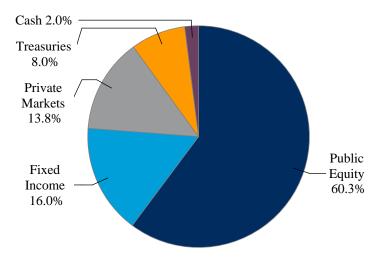
	(Millions)	Actual Mix	<b>Policy Target</b>
Public Equity	\$41,430	60.7%	49.0%
Fixed Income	10,695	15.7	16.0
Private Markets	9,432	13.8	25.0
Treasuries	5,880	8.6	8.0
Cash	851	1.2	2.0
TOTAL	68,288	100.0	



#### **Composite Index Comparison**

The Combined Funds Composite is set as the Strategic Asset Allocation Policy Target with the uninvested portion of Private Markets allocated to Public Equity. Asset class weights for Public Equity and Private Markets 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	60.3%	67% Russell 3000/33% MSCI ACWI ex				
Fixed Income	16.0	US				
Private Markets	13.8	BB Barclays U.S. Aggregate				
Treasuries	8.0	Private Markets				
		BB Barclays Treasury 5+ Years				
Cash	2.0	3 Month T-Bills				





## **Combined Funds Asset Class Performance Summary**



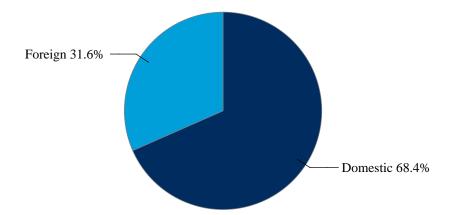
#### **Public Equity**

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

The Public Equity benchmark is 67% Russell 3000 and 33% MSCI ACWI ex USA.

The Russell 3000 measures the performance of the 3000 largest U.S. companies based on total market capitalization.

The Morgan Stanley Capital International All Country World Index ex U.S. (net) is a free float-adjusted market capitalization index that is designed to measure equity market performance in developed and emerging markets other than the United States.



	Last Qtr	FYTD	<u>1 Year</u>	<u>3 Year</u>	5 Year	10 Year	20 Year	<u>30 year</u>
Public Equity	2.0%	12.8%	12.8%	9.7%	11.5%	8.4%	6.2%	9.5%
Public Equity Benchmark	1.7	12.3	12.3					
Excess	0.3	0.5	0.5					
Domestic Equity	4.2	15.4	15.4	11.3	13.3	10.2	6.5	9.9
Domestic Equity Benchmark	3.9	14.8	14.8	11.6	13.3	10.2	6.6	10.1
Excess	0.3	0.7	0.7	-0.3	0.0	-0.0	-0.2	-0.2
International Equity	-2.4	7.5	7.5	5.3	6.4	3.0	5.2	
International Equity Benchmark	-2.6	7.3	7.3	5.1	6.0	2.5	4.9	
Excess	0.2	0.2	0.2	0.2	0.4	0.5	0.3	

#### 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**



#### **Fixed Income**

The Combined Funds Fixed Income performance is shown here.

The Fixed Income benchmark is the Bloomberg Barclays U.S. Aggregate Index. This index reflects the performance of the broad bond market for investment grade (Baa or higher) bonds, U.S. Treasury and agency securities, and mortgage obligations with maturities greater than one year.

	Last Qtr	FYTD	1 Year	<u>3 Year</u>	5 Year	10 Year	20 Year	30 year
Fixed Income	0.0%	0.1%	0.1%	2.3%	2.8%	4.4%	5.0%	6.5%
Fixed Income Benchmark	-0.2	-0.4	-0.4	1.7	2.3	3.7	4.7	6.1
Excess	0.2	0.5	0.5	0.5	0.5	0.7	0.3	0.3

#### **Treasuries**

The Combined Funds Treasuries performance is shown here. The Treasuries benchmark is the Bloomberg Barclays Treasury 5+ Years Index.

	Last Qtr	FYTD	<u>1 Year</u>	3 Year	5 Year	10 Year	20 Year	30 year
Treasuries	0.0%							
BBG BARC 5Y + Us Tsy Idx	0.1							
Excess	-0.1							

#### <u>Cash</u>

The Combined Funds Cash performance is shown here. Cash is held by the Combined Funds to meet the liquidity needs of the retirement systems to pay benefits.

	Last Qtr	FYTD	<u>1 Year</u>	<u>3 Year</u>	5 Year	10 Year	20 Year	30 year
Cash	0.5%	1.4%	1.4%	0.9%	0.6%	0.7%	2.5%	4.0%
90 DAY T-BILL	0.5	1.4	1.4	0.7	0.4	0.4	2.0	3.2

Note:

For additional information regarding historical asset class performance and benchmarks, please refer to the Combined Funds Performance Report.



### **Combined Funds Asset Class Performance Summary**



<b>Private Markets</b>									
	Last Qtr	FYTD	1 Year	<u>3 Year</u>	5 Year	10 Year	20 Year	25 year	30 year
Private Markets	2.4%	14.8%	14.8%	11.3%	12.0%	9.2%	12.1%	13.4%	12.2%
Private Equity	2.5%	19.7%	19.7%	15.1%	15.5%	11.7%	12.7%	15.3%	
Private Credit	4.3	12.0	12.0	14.2	14.4	11.2	13.0		
Resources	0.7	4.3	4.3	-0.3	0.9	4.9	13.8	14.7	
Real Estate	2.7	12.1	12.1	9.4	13.1	4.8	8.7	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.



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## Asset Class & Manager Performance June 30, 2018

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.



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Domestic Equity June 30, 2018





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	<u>3 Year</u>	5 Year	10 Year	Since Inception	Inception Date
Total Domestic Equity										
ACTIVE DOMESTIC EQUITY AGGREGATE (1)	\$4,874,690,373	16.5%	6.9%	19.7%	19.7%	11.8%	14.0%	10.3%		
Active Domestic Equity Benchmark			5.7	15.8	15.8	11.8	13.3	10.3		
Excess			1.2	3.9	3.9	-0.0	0.6	0.0		
SEMI PASSIVE DOMESTIC EQUITY AGGREGATE (2)	2,596,436,350	8.8	3.3	15.3	15.3	11.4	13.4	10.4		
Semi Passive Domestic Equity Benchmark			3.6	14.5	14.5	11.6	13.4	10.2		
Excess			-0.3	0.8	0.8	-0.2	0.0	0.2		
PASSIVE DOMESTIC EQUITY AGGREGATE (3)	22,025,233,661	74.7	3.7	14.6	14.6	11.5	13.3	10.2		
Passive Domestic Equity Benchmark			3.7	14.7	14.7	11.5	13.3	10.2		
Excess			-0.0	-0.1	-0.1	-0.0	-0.0	0.0		
TRANSITION AGGREGATE DOMESTIC EQUITY (4)	3,980,515	0.0								
TOTAL DOMESTIC EQUITY (5)	29,500,340,900	100.0	4.2	15.4	15.4	11.3	13.3	10.2	10.5	01/1984
Domestic Equity Benchmark			3.9	14.8	14.8	11.6	13.3	10.2	10.7	01/1984
Excess			0.3	0.7	0.7	-0.3	0.0	-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 and Russell 3000.

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

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

Note: All aggregates include the performance of terminated managers. For historical benchmark details please refer to the addendum of this report.





	2017 Calendar Return	2016 Calendar Return	2015 Calendar Return	2014 Calendar Return	2013 Calendar Return
Total Domestic Equity					
ACTIVE DOMESTIC EQUITY AGGREGATE (1)	20.6%	10.9%	-0.4%	9.3%	40.2%
Active Domestic Equity Benchmark	18.3	15.7	-0.6	11.0	34.7
Excess	2.3	-4.8	0.3	-1.7	5.5
SEMI PASSIVE DOMESTIC EQUITY AGGREGATE (2)	22.5	11.1	0.5	14.2	33.2
Semi Passive Domestic Equity Benchmark	21.7	12.1	0.9	13.2	33.1
Excess	0.8	-1.0	-0.4	1.0	0.1
PASSIVE DOMESTIC EQUITY AGGREGATE (3)	21.3	12.6	0.5	12.6	33.5
Passive Domestic Equity Benchmark	21.5	12.5	0.5	12.6	33.6
Excess	-0.2	0.1	0.0	0.0	-0.0
TRANSITION AGGREGATE DOMESTIC EQUITY (4)					
TOTAL DOMESTIC EQUITY (5)	21.4%	11.5	0.3	12.3	35.1
Domestic Equity Benchmark	21.1%	12.7	0.5	12.6	33.6
Excess	0.2%	-1.3	-0.2	-0.2	1.6

(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 and Russell 3000.

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

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

Note: All aggregates include the performance of terminated managers. For historical benchmark details please refer to the addendum of this report.





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	<u>1 Year</u>	3 Year	5 Year	10 Year	Since Inception	Inception Date
Active Large Cap Growth										
SANDS	\$598,533,935	2.0%	10.7%	34.7%	34.7%	16.1%	17.6%	14.6%	11.5%	01/2005
Russell 1000 Growth			5.8	22.5	22.5	15.0	16.4	11.8	9.9	01/2005
Excess			5.0	12.2	12.2	1.1	1.2	2.8	1.7	
WINSLOW	240,227,799	0.8	7.6	28.2	28.2	15.1	16.9	11.4	10.9	01/2005
Russell 1000 Growth			5.8	22.5	22.5	15.0	16.4	11.8	9.9	01/2005
Excess			1.8	5.7	5.7	0.1	0.5	-0.4	1.0	
ZEVENBERGEN	567,078,300	1.9	14.2	34.2	34.2	16.6	18.6	13.4	11.2	04/1994
Russell 1000 Growth			5.8	22.5	22.5	15.0	16.4	11.8	9.8	04/1994
Excess			8.5	11.7	11.7	1.6	2.2	1.6	1.5	

RUSSELL 1000 GROWTH AGGREGATE	1,405,840,034	4.8	11.6	33.3	33.3	17.9	18.6	13.0
Russell 1000 Growth			5.8	22.5	22.5	15.0	16.4	11.8
Excess			5.8	10.8	10.8	2.9	2.3	1.1





	2017 Calendar Return	2016 Calendar Return	2015 Calendar Return	2014 Calendar Return	2013 Calendar Return
Active Large Cap Growth					
SANDS	35.3%	-6.9%	2.9%	9.1%	42.4%
Russell 1000 Growth	30.2	7.1	5.7	13.0	33.5
Excess	5.1	-13.9	-2.8	-3.9	8.9
WINSLOW	33.2	-1.9	6.7	11.0	37.4
Russell 1000 Growth	30.2	7.1	5.7	13.0	33.5
Excess	3.0	-9.0	1.0	-2.0	3.9
ZEVENBERGEN	35.1	-2.8	6.4	3.4	60.6
Russell 1000 Growth	30.2	7.1	5.7	13.0	33.5
Excess	4.9	-9.9	0.7	-9.6	27.1

RUSSELL 1000 GROWTH AGGREGATE	33.4%	1.0	4.6	9.6	42.0
Russell 1000 Growth	30.2%	7.1	5.7	13.0	33.5
Excess	3.2%	-6.1	-1.1	-3.4	8.5





	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	\$382,287,559	1.3%	3.3%	8.3%	8.3%	7.8%	10.6%	8.9%	8.0%	04/2004
Russell 1000 Value			1.2	6.8	6.8	8.3	10.3	8.5	7.7	04/2004
Excess			2.1	1.5	1.5	-0.5	0.2	0.4	0.3	
EARNEST PARTNERS	272,999,395	0.9	1.4	12.9	12.9	10.0	12.2	9.1	7.0	07/2000
Russell 1000 Value			1.2	6.8	6.8	8.3	10.3	8.5	7.1	07/2000
Excess			0.2	6.1	6.1	1.7	1.9	0.6	-0.1	
LSV	419,135,723	1.4	0.0	11.9	11.9	9.5	12.5	10.1	9.2	04/2004
Russell 1000 Value			1.2	6.8	6.8	8.3	10.3	8.5	7.7	04/2004
Excess			-1.2	5.2	5.2	1.2	2.1	1.6	1.5	

RUSSELL 1000 VALUE AGGREGATE	1,074,422,677	3.6	1.5	10.9	10.9	8.7	11.4	9.0
Russell 1000 Value			1.2	6.8	6.8	8.3	10.3	8.5
Excess			0.3	4.1	4.1	0.4	1.1	0.5





	2017 Calendar Return	2016 Calendar Return	2015 Calendar Return	2014 Calendar Return	2013 Calendar Return
Active Large Cap Value					
BARROW HANLEY	14.6%	12.8%	-2.1%	13.0%	35.5%
Russell 1000 Value	13.7	17.3	-3.8	13.5	32.5
Excess	0.9	-4.5	1.7	-0.5	3.0
EARNEST PARTNERS	19.9	16.2	-2.7	14.0	32.0
Russell 1000 Value	13.7	17.3	-3.8	13.5	32.5
Excess	6.2	-1.1	1.1	0.5	-0.5
LSV	18.6	17.0	-2.2	14.0	41.2
Russell 1000 Value	13.7	17.3	-3.8	13.5	32.5
Excess	4.9	-0.4	1.6	0.6	8.7

RUSSELL 1000 VALUE AGGREGATE	17.3%	15.3	-3.2	13.1	36.5
Russell 1000 Value	13.7%	17.3	-3.8	13.5	32.5
Excess	3.7%	-2.1	0.6	-0.4	3.9





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	<u>3 Year</u>	5 Year	10 Year	Since Inception	Inception Date
Semi-Passive Large Cap										
BLACKROCK	\$1,060,666,411	3.6%	3.2%	17.3%	17.3%	12.8%	14.4%	10.6%	10.0%	01/1995
Semi Passive Domestic Equity Benchmark			3.6	14.5	14.5	11.6	13.4	10.2	9.6	01/1995
Excess			-0.4	2.8	2.8	1.1	1.0	0.4	0.5	
J.P. MORGAN	1,535,769,939	5.2	3.4	14.0	14.0	11.5	13.6	10.9	9.8	01/1995
Semi Passive Domestic Equity Benchmark			3.6	14.5	14.5	11.6	13.4	10.2	9.6	01/1995
Excess			-0.2	-0.6	-0.6	-0.1	0.2	0.7	0.3	

SEMI-PASSIVE DOMESTIC EQUITY AGGREGATE	2,596,436,350	8.8	3.3	15.3	15.3	11.4	13.4	10.4
Semi Passive Domestic Equity Benchmark			3.6	14.5	14.5	11.6	13.4	10.2
Excess			-0.3	0.8	0.8	-0.2	0.0	0.2





	2017 Calendar Return	2016 Calendar Return	2015 Calendar Return	2014 Calendar Return	2013 Calendar Return
Semi-Passive Large Cap					
BLACKROCK	24.6%	12.5%	0.8%	14.2%	33.3%
Semi Passive Domestic Equity Benchmark	21.7	12.1	0.9	13.2	33.1
Excess	2.9	0.5	-0.1	1.0	0.2
J.P. MORGAN	21.8	12.3	0.8	15.0	33.7
Semi Passive Domestic Equity Benchmark	21.7	12.1	0.9	13.2	33.1
Excess	0.1	0.2	-0.1	1.8	0.6

SEMI-PASSIVE DOMESTIC EQUITY AGGREGATE	22.5%	11.1	0.5	14.2	33.2
Semi Passive Domestic Equity Benchmark	21.7%	12.1	0.9	13.2	33.1
Excess	0.8%	-1.0	-0.4	1.0	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 Growth										
ARROWMARK	\$235,548,264	0.8%	10.4%	27.1%	27.1%				30.9%	11/2016
Russell 2000 Growth			7.2	21.9	21.9				26.6	11/2016
Excess			3.2	5.2	5.2				4.3	
HOOD RIVER	253,574,375	0.9	8.2	16.5	16.5				24.9	11/2016
Russell 2000 Growth			7.2	21.9	21.9				26.6	11/2016
Excess			0.9	-5.4	-5.4				-1.7	
RICE HALL JAMES	246,064,871	0.8	6.5	28.3	28.3				34.4	11/2016
Russell 2000 Growth			7.2	21.9	21.9				26.6	11/2016
Excess			-0.7	6.4	6.4				7.8	
WELLINGTON	258,133,818	0.9	6.0	19.0	19.0				26.2	11/2016
Russell 2000 Growth			7.2	21.9	21.9				26.6	11/2016
Excess			-1.3	-2.9	-2.9				-0.4	

RUSSELL 2000 GROWTH AGGREGATE	993,321,329	3.4	7.7	22.1	22.1	8.5	11.6	8.5
Russell 2000 Growth			7.2	21.9	21.9	10.6	13.6	11.2
Excess			0.5	0.3	0.3	-2.1	-2.1	-2.8





	2017 Calendar Return	2016 Calendar Return	2015 Calendar Return	2014 Calendar Return	2013 Calendar Return
Active Small Cap Growth					
ARROWMARK	26.2%				
Russell 2000 Growth	22.2				
Excess	4.1				
HOOD RIVER	21.3				
Russell 2000 Growth	22.2				
Excess	-0.9				
RICE HALL JAMES	27.9				
Russell 2000 Growth	22.2				
Excess	5.8				
WELLINGTON	22.6				
Russell 2000 Growth	22.2				
Excess	0.4				

RUSSELL 2000 GROWTH AGGREGATE	22.0%	4.7	1.0	-3.4	47.2
Russell 2000 Growth	22.2%	11.3	-1.4	5.6	43.3
Excess	-0.1%	-6.6	2.4	-9.0	3.9





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	<u>3 Year</u>	5 Year	10 Year	Since Inception	Inception Date
Active Small Cap Value										
GOLDMAN SACHS	\$371,176,649	1.3%	3.8%	12.2%	12.2%	9.6%	11.8%	11.7%	10.0%	01/2004
Russell 2000 Value			8.3	13.1	13.1	11.2	11.2	9.9	8.6	01/2004
Excess			-4.5	-0.9	-0.9	-1.6	0.6	1.8	1.4	
HOTCHKIS AND WILEY	326,297,788	1.1	9.1	13.4	13.4	7.0	11.5	12.1	9.0	01/2004
Russell 2000 Value			8.3	13.1	13.1	11.2	11.2	9.9	8.6	01/2004
Excess			0.8	0.3	0.3	-4.2	0.3	2.2	0.4	
MARTINGALE	309,405,915	1.0	6.1	12.6	12.6	11.3	13.1	10.5	8.6	01/2004
Russell 2000 Value			8.3	13.1	13.1	11.2	11.2	9.9	8.6	01/2004
Excess			-2.2	-0.5	-0.5	0.1	1.9	0.6	0.0	
PEREGRINE	394,225,982	1.3	6.1	16.0	16.0	10.5	11.4	11.6	10.8	07/2000
Russell 2000 Value			8.3	13.1	13.1	11.2	11.2	9.9	10.1	07/2000
Excess			-2.2	2.9	2.9	-0.7	0.2	1.7	0.7	
RUSSELL 2000 VALUE AGGREGATE	1,401,106,333	4.7	6.2	13.6	13.6	9.6	11.8	11.4		
Russell 2000 Value			8.3	13.1	13.1	11.2	11.2	9.9		

0.5

0.5

-1.6

0.6

1.5

-2.1



Excess



	2017 Calendar Return	2016 Calendar Return	2015 Calendar Return	2014 Calendar Return	2013 Calendar Return
Active Small Cap Value					
GOLDMAN SACHS	12.6%	24.6%	-5.2%	7.4%	39.3%
Russell 2000 Value	7.8	31.7	-7.5	4.2	34.5
Excess	4.7	-7.1	2.3	3.1	4.8
HOTCHKIS AND WILEY	7.9	19.9	-8.5	13.0	46.0
Russell 2000 Value	7.8	31.7	-7.5	4.2	34.5
Excess	0.0	-11.8	-1.0	8.8	11.5
MARTINGALE	6.9	34.3	-5.2	7.3	43.1
Russell 2000 Value	7.8	31.7	-7.5	4.2	34.5
Excess	-0.9	2.5	2.3	3.1	8.5
PEREGRINE	12.5	27.8	-6.7	4.1	37.3
Russell 2000 Value	7.8	31.7	-7.5	4.2	34.5
Excess	4.7	-3.9	0.8	-0.1	2.8

RUSSELL 2000 VALUE AGGREGATE	10.2%	26.5	-6.5	7.5	40.8
Russell 2000 Value	7.8%	31.7	-7.5	4.2	34.5
Excess	2.3%	-5.2	1.0	3.3	6.3





	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	\$12,600,546,083	42.7%	3.6%	14.5%	14.5%				18.4%	11/2016
Russell 1000			3.6	14.5	14.5				18.5	11/2016
Excess			-0.0	-0.0	-0.0				-0.0	
BLACKROCK RUSSELL 3000 (1)	9,424,687,578	31.9	3.9	14.8	14.8	11.6%	13.3%	10.3%	9.3	07/1995
Passive Manager Benchmark			3.9	14.8	14.8	11.6	13.3	10.2	9.2	07/1995
Excess			-0.0	0.0	0.0	0.0	0.0	0.0	0.1	

PASSIVE DOMESTIC EQUITY AGGREGATE	22,025,233,661	74.7	3.7	14.6	14.6	11.5	13.3	10.2	
Passive Domestic Equity Benchmark			3.7	14.7	14.7	11.5	13.3	10.2	
Excess			-0.0	-0.1	-0.1	-0.0	-0.0	0.0	

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





	2017 Calendar Return	2016 Calendar Return	2015 Calendar Return	2014 Calendar Return	2013 Calendar Return
Total Passive Domestic Equity					
BLACKROCK RUSSELL 1000	21.7%				
Russell 1000	21.7				
Excess	-0.0				
BLACKROCK RUSSELL 3000 (1)	21.1	12.7%	0.5%	12.6%	33.5%
Passive Manager Benchmark	21.1	12.7	0.5	12.6	33.6
Excess	0.0	0.0	0.0	0.0	-0.0

PASSIVE DOMESTIC EQUITY AGGREGATE	21.3%	12.6	0.5	12.6	33.5
Passive Domestic Equity Benchmark	21.5%	12.5	0.5	12.6	33.6
Excess	-0.2%	0.1	0.0	0.0	-0.0

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



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## International Equity June 30, 2018





	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)	\$10,091,941,311	75.8%	-0.4%	7.8%	7.8%	5.3%	6.9%	3.4%		
BENCHMARK DM			-0.7	7.0	7.0	4.9	6.2	2.6		
Excess			0.4	0.7	0.7	0.4	0.7	0.7		
EMERGING MARKETS (2)	3,218,923,800	24.2	-8.3	6.8	6.8	5.1	4.4	1.8		
BENCHMARK EM			-8.0	8.2	8.2	5.6	5.0	2.3		
Excess			-0.3	-1.4	-1.4	-0.5	-0.6	-0.4		
TRANSITION AGGREGATE INTERNATIONAL EQUITY (3)	4,822,895	0.0								
TOTAL INTERNATIONAL EQUITY (4)	13,315,688,006	100.0	-2.4	7.5	7.5	5.3	6.4	3.0	6.6	10/1992
International Equity Benchmark			-2.6	7.3	7.3	5.1	6.0	2.5	6.2	10/1992
Excess			0.2	0.2	0.2	0.2	0.4	0.5	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) 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. The current International Equity Benchmark is the Standard (large + mid) MSCI ACWI ex U.S. (net).

Note: All aggregates include the performance of terminated managers. For historical benchmark details please refer to the addendum of this report.





	2017 Calendar Return	2016 Calendar Return	2015 Calendar Return	2014 Calendar Return	2013 Calendar Return
Total International Equity					
DEVELOPED MARKETS (1)	24.9%	1.3%	-0.3%	-4.1%	23.3%
BENCHMARK DM	24.2	2.7	-3.0	-4.3	21.0
Excess	0.7	-1.5	2.8	0.2	2.2
EMERGING MARKETS (2)	37.7	7.5	-13.1	-3.8	0.2
BENCHMARK EM	37.3	11.2	-14.9	-2.2	-2.6
Excess	0.4	-3.7	1.9	-1.6	2.9

## TRANSITION AGGREGATE INTERNATIONAL EQUITY (3)

TOTAL INTERNATIONAL EQUITY (4)	27.6%	2.6	-2.9	-4.0	17.8
International Equity Benchmark	27.2%	4.5	-5.7	-3.9	15.3
Excess	0.4%	-1.8	2.8	-0.2	2.5

(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) 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. The current International Equity Benchmark is the Standard (large + mid) MSCI ACWI ex U.S. (net).

Note: All aggregates include the performance of terminated managers. 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 Developed Markets										
ACADIAN	\$452,616,172	3.4%	0.8%	13.5%	13.5%	13.4%	12.1%	4.5%	7.2%	07/2005
BENCHMARK DM			-0.7	7.0	7.0	4.9	6.2	2.6	5.1	07/2005
Excess			1.6	6.5	6.5	8.5	5.9	1.9	2.1	
COLUMBIA	347,277,699	2.6	-0.4	12.8	12.8	6.2	7.8	4.5	3.1	03/2000
BENCHMARK DM			-0.7	7.0	7.0	4.9	6.2	2.6	3.5	03/2000
Excess			0.4	5.8	5.8	1.3	1.6	1.9	-0.4	
FIDELITY	431,061,143	3.2	0.5	9.1	9.1	5.9	7.0	4.1	6.7	07/2005
BENCHMARK DM			-0.7	7.0	7.0	4.9	6.2	2.6	5.1	07/2005
Excess			1.2	2.1	2.1	1.0	0.8	1.4	1.6	
JP MORGAN	259,578,530	1.9	-1.2	8.4	8.4	5.3	6.3	3.6	5.3	07/2005
BENCHMARK DM			-0.7	7.0	7.0	4.9	6.2	2.6	5.1	07/2005
Excess			-0.5	1.4	1.4	0.4	0.1	1.0	0.2	
MARATHON	831,854,462	6.2	1.1	7.3	7.3	5.6	7.9	5.4	8.3	11/1993
BENCHMARK DM			-0.7	7.0	7.0	4.9	6.2	2.6	5.2	11/1993
Excess			1.8	0.2	0.2	0.7	1.6	2.8	3.1	
MCKINLEY	266,441,965	2.0	0.7	12.8	12.8	4.7	7.0	1.7	5.1	07/2005
BENCHMARK DM			-0.7	7.0	7.0	4.9	6.2	2.6	5.1	07/2005
Excess			1.5	5.8	5.8	-0.2	0.8	-1.0	-0.0	
ACTIVE DEVELOPED MARKETS AGGREGATE	2,588,829,971	19.4	0.5	10.2	10.2	6.8	8.1	4.4		
BENCHMARK DM			-0.7	7.0	7.0	4.9	6.2	2.6		
Excess			1.2	3.2	3.2	2.0	1.9	1.7		





	2017 Calendar Return	2016 Calendar Return	2015 Calendar Return	2014 Calendar Return	2013 Calendar Return
Active Developed Markets					
ACADIAN	37.0%	8.1%	2.4%	-1.7%	26.1%
BENCHMARK DM	24.2	2.7	-3.0	-4.3	21.0
Excess	12.8	5.4	5.4	2.6	5.1
COLUMBIA	32.7	-5.6	6.4	-5.6	23.9
BENCHMARK DM	24.2	2.7	-3.0	-4.3	21.0
Excess	8.5	-8.3	9.4	-1.2	2.9
FIDELITY	25.9	1.2	0.1	-5.6	26.7
BENCHMARK DM	24.2	2.7	-3.0	-4.3	21.0
Excess	1.7	-1.5	3.2	-1.3	5.7
JP MORGAN	28.3	4.0	-4.7	-5.1	19.5
BENCHMARK DM	24.2	2.7	-3.0	-4.3	21.0
Excess	4.1	1.2	-1.6	-0.7	-1.5
MARATHON	23.1	-1.1	6.7	-4.0	28.5
BENCHMARK DM	24.2	2.7	-3.0	-4.3	21.0
Excess	-1.1	-3.8	9.7	0.3	7.5
MCKINLEY	28.5	-7.5	3.1	-2.7	28.0
BENCHMARK DM	24.2	2.7	-3.0	-4.3	21.0
Excess	4.3	-10.2	6.2	1.6	7.0
ACTIVE DEVELOPED MARKETS AGGREGATE	28.4%	-0.2	3.2	-4.1	25.4
BENCHMARK DM	24.2%	2.7	-3.0	-4.3	21.0
Excess	4.2%	-3.0	6.2	0.2	4.4





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Semi-Passive Developed Markets										
AQR	\$404,296,844	3.0%	-3.5%	4.4%	4.4%	4.9%	6.4%	3.4%	5.6%	07/2005
BENCHMARK DM			-0.7	7.0	7.0	4.9	6.2	2.6	5.1	07/2005
Excess			-2.8	-2.6	-2.6	0.0	0.2	0.7	0.5	

SEMI-PASSIVE DEVELOPED MARKETS AGGREGATE	404,296,844	3.0	-3.5	2.7	2.7	3.0	5.6	2.4
BENCHMARK DM			-0.7	7.0	7.0	4.9	6.2	2.6
Excess			-2.8	-4.3	-4.3	-1.8	-0.6	-0.2





	2017 Calendar Return	2016 Calendar Return	2015 Calendar Return	2014 Calendar Return	2013 Calendar Return
Semi-Passive Developed Markets					
AQR	25.1%	0.8%	0.9%	-4.4%	24.1%
BENCHMARK DM	24.2	2.7	-3.0	-4.3	21.0
Excess	0.9	-2.0	3.9	-0.1	3.1

SEMI-PASSIVE DEVELOPED MARKETS AGGREGATE	23.3%	-0.4	-0.3	-4.4	24.0
BENCHMARK DM	24.2%	2.7	-3.0	-4.3	21.0
Excess	-0.9%	-3.1	2.7	-0.1	3.0





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Total Developed Markets										
ACTIVE DEVELOPED MARKETS AGGREGATE	\$2,588,829,971	19.4%	0.5%	10.2%	10.2%	6.8%	8.1%	4.4%		
BENCHMARK DM			-0.7	7.0	7.0	4.9	6.2	2.6		
Excess			1.2	3.2	3.2	2.0	1.9	1.7		
SEMI-PASSIVE DEVELOPED MARKETS AGGREGATE	404,296,844	3.0	-3.5	2.7	2.7	3.0	5.6	2.4		
BENCHMARK DM			-0.7	7.0	7.0	4.9	6.2	2.6		
Excess			-2.8	-4.3	-4.3	-1.8	-0.6	-0.2		
SSgA DEVELOPED MARKETS PASSIVE	7,098,814,495	53.3	-0.5	7.3	7.3	5.3	6.7	3.0	6.3	10/1992
BENCHMARK DM			-0.7	7.0	7.0	4.9	6.2	2.6	6.0	10/1992
Excess			0.3	0.3	0.3	0.4	0.4	0.4	0.3	
DEVELOPED MARKETS TOTAL	10,091,941,311	75.8	-0.4	7.8	7.8	5.3	6.9	3.4		
BENCHMARK DM			-0.7	7.0	7.0	4.9	6.2	2.6		
Excess			0.4	0.7	0.7	0.4	0.7	0.7		





	2017 Calendar Return	2016 Calendar Return	2015 Calendar Return	2014 Calendar Return	2013 Calendar Return
Total Developed Markets					
ACTIVE DEVELOPED MARKETS AGGREGATE	28.4%	-0.2%	3.2%	-4.1%	25.4%
BENCHMARK DM	24.2	2.7	-3.0	-4.3	21.0
Excess	4.2	-3.0	6.2	0.2	4.4
SEMI-PASSIVE DEVELOPED MARKETS AGGREGATE	23.3	-0.4	-0.3	-4.4	24.0
BENCHMARK DM	24.2	2.7	-3.0	-4.3	21.0
Excess	-0.9	-3.1	2.7	-0.1	3.0
SSgA DEVELOPED MARKETS PASSIVE	24.7%	3.2	-2.6	-3.9	21.4
BENCHMARK DM	24.2%	2.7	-3.0	-4.3	21.0
Excess	0.5%	0.4	0.5	0.4	0.4
DEVELOPED MARKETS TOTAL	24.9%	1.3	-0.3	-4.1	23.3
BENCHMARK DM	24.2%	2.7	-3.0	-4.3	21.0
Excess	0.7%	-1.5	2.8	0.2	2.2





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	<u>3 Year</u>	5 Year	10 Year	Since Inception	Inception Date
Active Emerging Markets										
EARNEST PARTNERS	\$294,013,073	2.2%	-10.6%	3.3%	3.3%				9.2%	04/2017
MSCI EMERGING MARKETS			-8.0	8.2	8.2				11.8	04/2017
Excess			-2.7	-4.9	-4.9				-2.7	
MARTIN CURRIE	337,146,705	2.5	-6.3	14.5	14.5				19.3	04/2017
BENCHMARK EM			-8.0	8.2	8.2				11.8	04/2017
Excess			1.7	6.3	6.3				7.4	
MACQUARIE	314,583,393	2.4	-6.5	8.1	8.1				12.5	04/2017
BENCHMARK EM			-8.0	8.2	8.2				11.8	04/2017
Excess			1.5	-0.1	-0.1				0.7	
MORGAN STANLEY	597,481,355	4.5	-10.3	3.3	3.3	4.7%	4.4%	2.6%	9.7	01/2001
BENCHMARK EM			-8.0	8.2	8.2	5.6	5.0	2.3	9.5	01/2001
Excess			-2.4	-4.9	-4.9	-0.9	-0.6	0.3	0.2	
NEUBERGER BERMAN	318,332,098	2.4	-7.9	10.0	10.0				13.8	04/2017
BENCHMARK EM			-8.0	8.2	8.2				11.8	04/2017
Excess			0.1	1.8	1.8				1.9	
PZENA	289,632,118	2.2	-7.2	2.1	2.1				6.3	04/2017
BENCHMARK EM			-8.0	8.2	8.2				11.8	04/2017
Excess			0.7	-6.1	-6.1				-5.5	
ROCK CREEK	297,329,810	2.2	-8.2	5.0	5.0				8.4	04/2017
BENCHMARK EM			-8.0	8.2	8.2				11.8	04/2017
Excess			-0.3	-3.2	-3.2				-3.4	





	2017 Calendar Return	2016 Calendar Return	2015 Calendar Return	2014 Calendar Return	2013 Calendar Return
Active Emerging Markets					
EARNEST PARTNERS					
MSCI EMERGING MARKETS					
Excess					
MARTIN CURRIE					
BENCHMARK EM					
Excess					
MACQUARIE					
BENCHMARK EM					
Excess					
MORGAN STANLEY	37.9%	6.1%	-9.4%	-2.5%	0.5%
BENCHMARK EM	37.3	11.2	-14.9	-2.2	-2.6
Excess	0.6	-5.1	5.5	-0.3	3.1
NEUBERGER BERMAN					
BENCHMARK EM					
Excess					
PZENA					
BENCHMARK EM					
Excess					
BENCHMARK EM					
Excess					





	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	\$2,448,518,552	18.4%	-8.4%	6.2%	6.2%	4.3%	3.8%	1.6%		
BENCHMARK EM			-8.0	8.2	8.2	5.6	5.0	2.3		
Excess			-0.4	-2.0	-2.0	-1.3	-1.2	-0.7		
SSGA EMERGING MARKETS PASSIVE	770,405,248	5.8	-7.9	8.2	8.2	5.7	5.2		5.0	01/2012
BENCHMARK EM			-8.0	8.2	8.2	5.6	5.0		4.9	01/2012
Excess			0.1	-0.0	-0.0	0.1	0.1		0.1	

1	EMERGING MARKETS TOTAL	3,218,923,800	24.2	-8.3	6.8	6.8	5.1	4.4	1.8
	BENCHMARK EM			-8.0	8.2	8.2	5.6	5.0	2.3
	Excess			-0.3	-1.4	-1.4	-0.5	-0.6	-0.4





	2017 Calendar Return	2016 Calendar Return	2015 Calendar Return	2014 Calendar Return	2013 Calendar Return
Total Emerging Markets					
ACTIVE EMERGING MARKETS AGGREGATE	37.2%	5.3%	-12.7%	-4.1%	0.6%
BENCHMARK EM	37.3	11.2	-14.9	-2.2	-2.6
Excess	-0.1	-5.9	2.2	-2.0	3.2
SSGA EMERGING MARKETS PASSIVE	37.4%	11.1	-14.6	-2.1	-2.5
BENCHMARK EM	37.3%	11.2	-14.9	-2.2	-2.6
Excess	0.1%	-0.1	0.3	0.0	0.1

EMERGING MARKETS TOTAL	37.7%	7.5	-13.1	-3.8	0.2
BENCHMARK EM	37.3%	11.2	-14.9	-2.2	-2.6
Excess	0.4%	-3.7	1.9	-1.6	2.9



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## Fixed Income June 30, 2018





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	<u>3 Year</u>	5 Year	10 Year	Since Inception	Inception Date
Total Fixed Income										
ACTIVE FIXED INCOME AGGREGATE	\$5,495,207,171	49.7%	-0.1%	0.4%	0.4%	2.7%	3.1%	4.7%		
BBG BARC Agg (Dly)			-0.2	-0.4	-0.4	1.7	2.3	3.7		
Excess			0.1	0.8	0.8	0.9	0.8	1.0		
SEMI PASSIVE FIXED INCOME AGGREGATE	5,565,016,233	50.3	-0.1	-0.2	-0.2	1.9	2.5	4.1		
BBG BARC Agg (Dly)			-0.2	-0.4	-0.4	1.7	2.3	3.7		
Excess			0.1	0.2	0.2	0.2	0.2	0.4		
TRANSITION AGGREGATE FIXED INCOME (1)	18,174	0.0								
TOTAL FIXED INCOME (2)	11,060,241,579	100.0	-0.1	0.1	0.1	2.3	2.8	4.4	7.5	07/1984
Fixed Income Benchmark			-0.2	-0.4	-0.4	1.7	2.3	3.7	7.1	07/1984
Excess			0.1	0.5	0.5	0.5	0.5	0.7	0.4	

(1) The Transition Aggregate Fixed Income includes fixed income securities that are being transition to a different manager.

(2) The current Fixed Income Benchmark is the Bloomberg Barclays U.S. Aggregate calculated daily: BBG BARC Agg (Dly). For historical benchmark details please refer to the addendum of this report.

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





	2017 Calendar Return	2016 Calendar Return	2015 Calendar Return	2014 Calendar Return	2013 Calendar Return
Total Fixed Income					
ACTIVE FIXED INCOME AGGREGATE	4.7%	4.4%	0.6%	6.2%	-0.8%
BBG BARC Agg (Dly)	3.5	2.6	0.5	6.0	-2.0
Excess	1.2	1.7	0.0	0.2	1.2
SEMI PASSIVE FIXED INCOME AGGREGATE	3.7	2.8	0.8	6.1	-1.8
BBG BARC Agg (Dly)	3.5	2.6	0.5	6.0	-2.0
Excess	0.2	0.2	0.2	0.1	0.2
TRANSITION AGGREGATE FIXED INCOME (1)					
TOTAL FIXED INCOME (2)	4.2%	3.6	0.7	6.1	-1.3
Fixed Income Benchmark	3.5%	2.6	0.5	6.0	-2.0
Excess	0.7%	0.9	0.1	0.2	0.7

(1) The Transition Aggregate Fixed Income includes fixed income securities that are being transition to a different manager.

(2) The current Fixed Income Benchmark is the Bloomberg Barclays U.S. Aggregate calculated daily: BBG BARC Agg (Dly). For historical benchmark details please refer to the addendum of this report.

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





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Active Fixed Income Managers										
COLUMBIA	\$1,169,333,831	10.6%	0.2%	0.7%	0.7%	2.8%	3.1%	4.5%	5.3%	07/1993
BBG BARC Agg (Dly)			-0.2	-0.4	-0.4	1.7	2.3	3.7	5.1	07/1993
Excess			0.3	1.1	1.1	1.1	0.9	0.8	0.2	
DODGE & COX	1,655,889,421	15.0	-0.2	0.6	0.6	2.7	3.2	5.1	5.9	02/2000
BBG BARC Agg (Dly)			-0.2	-0.4	-0.4	1.7	2.3	3.7	4.9	02/2000
Excess			-0.1	1.0	1.0	0.9	1.0	1.4	1.0	
PIMCO	1,075,716,024	9.7	0.1	0.2	0.2	2.0	2.5		5.3	10/2008
BBG BARC Agg (Dly)			-0.2	-0.4	-0.4	1.7	2.3		3.9	10/2008
Excess			0.2	0.6	0.6	0.3	0.2		1.4	
WESTERN	1,594,267,896	14.4	-0.3	0.4	0.4	3.1	3.5	5.1	8.3	07/1984
BBG BARC Agg (Dly)			-0.2	-0.4	-0.4	1.7	2.3	3.7	7.2	07/1984
Excess			-0.1	0.8	0.8	1.4	1.2	1.4	1.1	
ACTIVE FIXED INCOME	5 405 207 474	49.7	0.1	0.4	0.4	2.7	3.1	47		
AGGREGATE	5,495,207,171	49.7	-0.1	0.4	0.4	2.1	3.1	4.7		
BBG BARC Agg (Dly)			-0.2	-0.4	-0.4	1.7	2.3	3.7		
Excess			0.1	0.8	0.8	0.9	0.8	1.0		





	2017 Calendar Return	2016 Calendar Return	2015 Calendar Return	2014 Calendar Return	2013 Calendar Return
Active Fixed Income Managers					
COLUMBIA	4.8%	5.2%	0.2%	5.8%	-1.0%
BBG BARC Agg (Dly)	3.5	2.6	0.5	6.0	-2.0
Excess	1.2	2.6	-0.4	-0.2	1.0
DODGE & COX		4.8	0.3	6.0	0.9
BBG BARC Agg (Dly)	3.5	2.6	0.5	6.0	-2.0
Excess		2.2	-0.3	0.0	3.0
PIMCO	4.4	2.8	1.0	5.5	-1.3
BBG BARC Agg (Dly)	3.5	2.6	0.5	6.0	-2.0
Excess	0.8	0.2	0.4	-0.4	0.7
WESTERN	5.6	4.9	0.7	7.0	-1.4
BBG BARC Agg (Dly)	3.5	2.6	0.5	6.0	-2.0
Excess	2.1	2.2	0.1	1.0	0.7
ACTIVE FIXED INCOME AGGREGATE	4.7%	4.4	0.6	6.2	-0.8
BBG BARC Agg (Dly)	3.5%	2.6	0.5	6.0	-2.0
Excess	1.2%	1.7	0.0	0.2	1.2





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Semi Passive Fixed Income Managers										
BLACKROCK	\$1,659,035,471	15.0%	-0.1%	-0.4%	-0.4%	1.8%	2.4%	3.7%	5.1%	04/1996
BBG BARC Agg (Dly)			-0.2	-0.4	-0.4	1.7	2.3	3.7	5.1	04/1996
Excess			0.0	0.0	0.0	0.1	0.2	-0.0	0.1	
GOLDMAN SACHS	2,084,495,180	18.8	0.0	0.0	0.0	2.0	2.6	4.2	5.5	07/1993
BBG BARC Agg (Dly)			-0.2	-0.4	-0.4	1.7	2.3	3.7	5.1	07/1993
Excess			0.2	0.4	0.4	0.3	0.3	0.5	0.3	
NEUBERGER	1,821,485,583	16.5	-0.1	-0.4	-0.4	1.8	2.4	4.3	6.3	07/1988
BBG BARC Agg (Dly)			-0.2	-0.4	-0.4	1.7	2.3	3.7	6.1	07/1988
Excess			0.0	0.0	0.0	0.1	0.1	0.6	0.2	
SEMI PASSIVE FIXED INCOME	5,565,016,233	50.3	-0.1	-0.2	-0.2	1.9	2.5	4.1		
BBG BARC Agg (Dly)			-0.2	-0.4	-0.4	1.7	2.3	3.7		
Excess			0.1	0.2	0.2	0.2	0.2	0.4		





	2017 Calendar Return	2016 Calendar Return	2015 Calendar Return	2014 Calendar Return	2013 Calendar Return
Semi Passive Fixed Income Managers					
BLACKROCK	3.7%	2.8%	0.9%	6.0%	-1.8%
BBG BARC Agg (Dly)	3.5	2.6	0.5	6.0	-2.0
Excess	0.1	0.1	0.3	0.0	0.2
GOLDMAN SACHS	3.9	3.0	0.8	6.1	-1.7
BBG BARC Agg (Dly)	3.5	2.6	0.5	6.0	-2.0
Excess	0.4	0.3	0.2	0.1	0.3
NEUBERGER	3.6	2.7	0.7	6.1	-2.0
BBG BARC Agg (Dly)	3.5	2.6	0.5	6.0	-2.0
Excess	0.0	0.1	0.2	0.2	0.1
SEMI PASSIVE FIXED INCOME	3.7%	2.8	0.8	6.1	-1.8

0.5

0.2

6.0

0.1

2.6

0.2



-2.0 0.2

BBG BARC Agg (Dly)

Excess

3.5%

0.2%

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## **Treasuries** June 30, 2018





	Ending Market Value	Portfolio Weight	Last Qtr	Fiscal YTD	<u>1 Year</u>	<u>3 Year</u>	5 Year	10 Year	Since Inception	Inception Date
Treasuries Managers										
BLACKROCK	\$1,961,037,073	33.4%	0.1%						0.2%	02/2018
BBG BARC 5Y + Us Tsy Idx			0.1						0.3	02/2018
Excess			0.0						-0.0	
GOLDMAN SACHS	1,948,915,608	33.1	0.1						0.3	02/2018
BBG BARC 5Y + Us Tsy ldx			0.1						0.3	02/2018
Excess			0.1						0.0	
NEUBERGER	1,970,070,483	33.5	0.1						0.2	02/2018
BBG BARC 5Y + Us Tsy ldx			0.1						0.3	02/2018
Excess			0.0						-0.1	
TREASURIES TRANSITION ACCOUNT	31,526	0.0								03/2018
TOTAL TREASURIES	5,880,054,690	100.0	0.2						0.3%	02/2018
BBG BARC 5Y + Us Tsy ldx			0.1						0.3%	02/2018
Excess			0.2						-0.0%	





	2017 Calendar Return	2016 Calendar Return	2015 Calendar Return	2014 Calendar Return	2013 Calendar Return
Treasuries Managers					
BLACKROCK					
BBG BARC 5Y + Us Tsy ldx					
Excess					
GOLDMAN SACHS					
BBG BARC 5Y + Us Tsy Idx					
Excess					
NEUBERGER					
BBG BARC 5Y + Us Tsy Idx					
Excess					

#### TOTAL TREASURIES

BBG BARC 5Y + Us Tsy Idx

Excess



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## Private Markets June 30, 2018



### **Combined Funds Asset Class Performance Summary**



Private Markets									
	Last Qtr	FYTD	<u>1 Year</u>	<u>3 Year</u>	5 Year	10 Year	20 Year	25 year	30 year
Private Markets	2.4%	14.8%	14.8%	11.3%	12.0%	9.2%	12.1%	13.4%	12.2%
Private Equity	2.5%	19.7%	19.7%	15.1%	15.5%	11.7%	12.7%	15.3%	
Private Credit	4.3	12.0	12.0	14.2	14.4	11.2	13.0		
Resources	0.7	4.3	4.3	-0.3	0.9	4.9	13.8	14.7	
Real Estate	2.7	12.1	12.1	9.4	13.1	4.8	8.7	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.



Investment	Total Commitment	Total Contributions	Market Value	Distributions	Unfunded Commitment	IRR %	MOIC*	Period Years
I. PRIVATE EQUITY								
Adams Street Partners								
Adams Street Global Secondary Fund 5	100,000,000	76,529,750	63,209,755	26,434,531	23,470,250	6.34	1.17	6.04
Adams Street Global Secondary Fund 6	100,000,000	0	120,748	0	100,000,000	0.00	0.00	1.25
Advent International								
Advent International GPE VI	50,000,000	52,993,313	23,954,720	84,135,574	0	17.14	2.04	10.25
Advent International GPE VII	90,000,000	84,690,641	96,295,749	50,580,083	5,400,000	18.00	1.73	5.79
Advent International GPE VIII	100,000,000	49,150,000	51,185,154	0	50,850,000	4.07	1.04	2.40
Affinity Ventures								
Affinity Ventures IV	4,000,000	4,000,000	649,643	1,541,970	0	-11.75	0.55	14.01
Affinity Ventures V	5,000,000	5,000,000	2,310,985	1,706,245	0	-4.33	0.80	10.00
APAX Partners								
Apax VIII - USD	200,000,000	207,707,702	224,508,143	65,764,103	28,571,096	12.70	1.40	5.32
Apax IX - USD	150,000,000	66,417,205	69,448,213	1,422,626	85,005,421	9.44	1.07	2.11
Asia Alternatives								
Asia Alternatives Capital Partners V	99,000,000	4,144,162	3,001,830	75	94,861,948	-33.39	0.72	1.00
Banc Fund								
Banc Fund VII	45,000,000	45,000,000	10,393,834	56,459,725	0	3.73	1.49	13.25
Banc Fund VIII	98,250,000	98,250,000	114,008,722	105,125,973	0	14.95	2.23	10.19
Banc Fund IX	107,205,932	107,205,932	128,704,366	8,912,229	0	13.48	1.28	4.06
Banc Fund X	150,000,000	3,937,091	3,937,091	0	146,062,909	0.00	1.00	0.16
Blackstone Capital Partners								
Blackstone Capital Partners IV	70,000,000	84,375,218	6,703,721	193,288,642	1,916,968	37.03	2.37	15.98
Blackstone Capital Partners V	140,000,000	152,105,097	11,938,575	232,252,262	7,057,008	8.02	1.61	12.41
Blackstone Capital Partners VI	100,000,000	101,597,473	99,297,123	54,670,776	14,603,148	13.27	1.52	9.94
Blackstone Capital Partners VII	130,000,000	34,709,169	35,219,945	2,064,217	100,876,780	7.89	1.07	3.00
Blackstone Strategic Partners (CSFB/ DLJ)								
Strategic Partners III VC	25,000,000	24,960,287	4,749,040	29,717,061	1,093,582	6.31	1.38	13.09
Strategic Partners III-B	100,000,000	79,397,519	11,730,307	108,761,866	15,001,769	6.63	1.52	13.09
Strategic Partners IV VC	40,500,000	40,736,722	11,762,657	49,906,788	2,725,533	9.32	1.51	10.27

Investment	Total Commitment	Total Contributions	Market Value	Distributions	Unfunded Commitment	IRR %	MOIC*	Period Years
Strategic Partners IV-B	100,000,000	98,811,961	16,140,268	138,175,704	17,990,668	12.49	1.56	10.04
Strategic Partners V	100,000,000	82,986,695	28,296,584	105,612,041	39,074,454	19.91	1.61	6.87
Strategic Partners VI	150,000,000	89,407,483	74,247,801	62,614,071	66,058,931	21.25	1.53	4.21
Strategic Partners VII	150,000,000	73,965,318	85,054,565	6,304,121	82,901,524	41.13	1.24	1.52
Bridgepoint								
Bridgepoint Europe VI	175,132,566	0	0	0	175,132,566	0.00	0.00	0.28
Brookfield Asset Management								
Brookfield Capital Partners Fund IV	100,000,000	73,214,965	99,973,679	60,275,581	39,852,369	72.53	2.19	2.80
Cardinal Partners								
DSV Partners IV	10,000,000	10,000,000	31,015	39,196,082	0	10.61	3.92	33.52
Carlyle Group								
Carlyle Partners VII	150,000,000	0	0	0	150,000,000	0.00	0.00	0.54
Chicago Growth Partners (William Blair)								
William Blair Capital Partners VII	50,000,000	48,150,000	966,033	69,201,191	1,650,000	8.60	1.46	17.32
Chicago Growth Partners I	50,000,000	52,441,998	3,538,485	54,532,745	300,000	2.32	1.11	12.94
Chicago Growth Partners II	60,000,000	58,347,626	4,714,742	120,959,703	1,652,374	19.90	2.15	10.31
Court Square Capital Partners								
Court Square Capital Partners	100,000,000	80,927,616	360,386	182,160,766	185,289	28.92	2.26	16.56
Court Square Capital Partners II	175,000,000	167,834,915	44,105,252	269,770,708	17,601,260	13.28	1.87	11.82
Court Square Capital Partners III	175,000,000	132,474,390	99,723,389	68,388,660	53,307,461	12.53	1.27	6.08
Crescendo								
Crescendo IV	101,500,000	103,101,226	10,680,230	43,048,440	0	-5.53	0.52	18.32
CVC Capital Partners								
CVC European Equity Partners V	133,983,803	153,750,518	42,442,468	222,905,205	1,667,541	15.31	1.73	10.27
CVC Capital Partners VI	258,655,489	228,896,999	222,339,356	41,707,268	33,576,626	8.85	1.15	4.98
Elevation Partners								
Elevation Partners	75,000,000	73,237,580	151,344	113,492,106	799,634	11.82	1.55	13.13
Fox Paine & Company								
Fox Paine Capital Fund II	50,000,000	46,541,161	1,943	90,994,335	0	18.88	1.96	18.01
GHJM Marathon Fund								
TrailHead Fund	20,000,000	16,070,803	29,355,785	2,406,955	3,935,813	17.18	1.98	6.35
Glouston Capital Partners**								

Investment	Total Commitment	Total Contributions	Market Value	Distributions	Unfunded Commitment	IRR %	MOIC*	Period Years
Glouston Private Equity Opportunities Fund IV	5,337,098	4,327,981	1,644,870	3,065,487	1,090,000	4.27	1.09	3.50
GS Capital Partners								
GS Capital Partners 2000	50,000,000	52,377,410	1,018	115,308,929	0	23.49	2.20	17.84
GS Capital Partners V	100,000,000	74,319,006	640,320	191,435,136	1,041,099	18.25	2.58	13.25
GS Capital Partners VI	100,000,000	109,162,551	15,810,317	126,580,321	3,226,857	7.33	1.30	11.42
GS Vintage VII	100,000,000	49,293,687	44,661,536	10,597,125	51,032,916	33.38	1.12	2.01
West Street Capital Partners	150,000,000	33,750,000	30,148,200	0	116,250,000	-12.20	0.89	1.53
GTCR								
GTCR IX	75,000,000	71,414,933	7,803,673	119,144,001	3,585,067	13.57	1.78	12.01
GTCR X	100,000,000	103,577,386	31,373,531	174,605,060	6,751,396	21.72	1.99	7.56
GTCR Fund XI	110,000,000	93,774,367	86,097,590	45,474,063	16,741,556	20.06	1.40	4.62
HarbourVest**								
Dover Street VII	2,198,112	2,071,558	538,661	1,429,588	132,416	-2.77	0.95	3.50
HarbourVest Intl PE Partners V	3,527,413	3,343,761	1,045,589	3,158,205	186,808	13.05	1.26	3.50
Harbourvest Intl PE Partners VI	4,243,695	3,917,536	3,793,620	1,808,914	326,914	15.98	1.43	3.50
HarbourVest Partners VIII Buyout	4,506,711	4,298,488	2,011,834	3,645,793	234,000	14.60	1.32	3.50
HarbourVest Partners VIII Venture	7,190,898	7,079,986	4,314,029	4,325,427	140,000	8.33	1.22	3.50
Hellman & Friedman								
Hellman & Friedman Capital Partners V	160,000,000	146,165,961	2,770,068	387,466,707	8,070,303	27.90	2.67	13.59
Hellman & Friedman Capital Partners VI	175,000,000	171,037,755	13,730,940	307,008,677	5,084,864	13.11	1.88	11.26
Hellman & Friedman Capital Partners VII	50,000,000	49,658,251	64,844,075	47,996,954	2,444,104	24.05	2.27	9.20
IK Investment Partners								
IK Fund VII	180,542,990	174,772,091	162,925,340	67,809,109	8,334,068	9.54	1.32	4.80
IK Fund VIII	174,011,411	67,753,771	69,650,757	2,213,957	108,403,543	5.70	1.06	1.95
Kohlberg Kravis Roberts								
KKR Millennium Fund	200,000,000	205,167,570	6,047,399	418,702,397	0	16.36	2.07	15.57
KKR 2006 Fund	200,000,000	218,993,927	55,424,394	302,036,488	3,360,223	8.46	1.63	11.76
KKR Americas Fund XII	150,000,000	21,752,873	21,786,798	0	128,805,235	0.32	1.00	2.33
KKR Asian Fund III	100,000,000	7,021,357	5,374,842	0	92,978,643	-23.60	0.77	1.25
Leonard Green & Partners								
Green Equity Investors VI	200,000,000	214,505,390	189,789,935	124,831,654	21,248,883	14.39	1.47	6.30
Lexington Capital Partners								

Investment	Total Commitment	Total Contributions	Market Value	Distributions	Unfunded Commitment	IRR %	MOIC*	Period Years
Lexington Capital Partners VI-B	100,000,000	98,374,022	12,320,747	132,739,841	1,634,703	7.97	1.47	12.52
Lexington Capital Partners VII	200,000,000	170,805,743	66,866,254	201,733,861	38,808,437	15.25	1.57	9.47
Lexington Capital Partners VIII	150,000,000	86,529,088	85,708,857	34,790,171	74,156,120	27.92	1.39	4.33
Lexington Co-Investment Partners IV	200,000,000	55,721,101	55,521,134	2,810,160	147,089,059	7.47	1.05	1.91
Lexington Middle Market Investors IV	100,000,000	0	0	1,458,011	100,000,000	0.00	0.00	1.52
Madison Dearborn Capital Partners								
Madison Dearborn Capital Partners VII	100,000,000	39,470,210	41,359,654	1,105,589	61,607,581	5.83	1.08	2.53
Neuberger Berman								
Dyal Capital Partners III	175,000,000	135,874,180	79,460,945	78,006,913	115,468,788	26.52	1.16	3.20
Dyal Capital Partners IV	250,000,000	12,500,000	12,500,000	0	237,500,000	0.00	1.00	0.23
Nordic Capital								
Nordic Capital Fund VIII	181,859,787	184,858,192	185,645,281	58,635,734	11,473,248	13.41	1.32	4.80
North Sky Capital**								
North Sky Capital LBO Fund III	1,070,259	720,259	399,340	605,324	350,000	15.77	1.39	3.50
North Sky Capital Venture Fund III	1,384,080	1,277,830	377,611	1,170,992	106,250	10.07	1.21	3.50
Oak Hill Capital Management, Inc.								
Oak Hill Capital Partners IV	150,000,000	58,545,326	50,379,828	13,130,886	104,531,216	35.99	1.08	1.56
Paine & Partners								
Paine & Partners Capital Fund IV	75,000,000	50,629,069	54,715,875	1,074,740	25,444,085	5.70	1.10	3.55
Permira								
Permira V	178,282,056	168,414,797	174,126,521	58,994,423	28,433,702	11.53	1.38	4.50
Permira VI	139,168,453	54,544,397	57,260,087	0	84,624,056	7.58	1.05	1.93
Public Pension Capital Management								
Public Pension Capital	100,000,000	60,910,633	72,112,452	4,346,396	45,928,858	15.28	1.26	4.13
<b>RWI Ventures</b>								
RWI Ventures I	7,603,265	7,603,265	482,970	6,094,262	0	-4.19	0.87	12.01
Silver Lake Partners								
Silver Lake Partners II	100,000,000	90,186,767	7,680,700	163,423,495	11,771,953	11.00	1.90	14.01
Silver Lake Partners III	100,000,000	91,667,586	50,653,505	152,928,327	10,559,311	19.09	2.22	11.26
Silver Lake Partners IV	100,000,000	101,177,382	118,028,178	33,436,237	13,000,047	23.60	1.50	5.76
Silver Lake Partners V	135,000,000	9,936,126	9,641,301	0	125,063,874	-3.13	0.97	1.25
Split Rock Partners								

Investment	Total Commitment	Total Contributions	Market Value	Distributions	Unfunded Commitment	IRR %	MOIC*	Period Years
Split Rock Partners	50,000,000	47,890,906	6,469,807	56,816,177	2,109,094	3.47	1.32	13.17
Split Rock Partners II	60,000,000	59,165,000	37,154,205	44,774,545	835,000	7.55	1.38	10.18
Summit Partners								
Summit Partners Growth Equity Fund VIII	100,000,000	111,565,327	73,865,680	128,251,857	23,799,945	24.11	1.81	7.16
Summit Partners Growth Equity Fund IX	100,000,000	39,100,000	36,060,976	9,973,626	70,873,626	44.91	1.18	2.84
Thoma Bravo								
Thoma Bravo Fund XII	75,000,000	49,660,554	50,278,144	2,298,018	27,708,699	5.09	1.06	1.81
Thoma Bravo Fund XIII	150,000,000	0	0	0	150,000,000	0.00	0.00	0.25
Thoma Cressey								
Thoma Cressey Fund VII	50,000,000	50,000,000	843,884	106,625,069	0	23.59	2.15	17.86
Thoma Cressey Fund VIII	70,000,000	69,230,000	1,533,689	200,733,201	770,000	18.26	2.92	12.17
Thomas H. Lee Partners								
Thomas H. Lee Equity Fund VII	100,000,000	74,162,918	78,564,208	16,193,687	34,178,832	23.90	1.28	2.81
Thomas H. Lee Equity Fund VIII	150,000,000	0	0	0	150,000,000	0.00	0.00	0.25
Thomas, McNerney & Partners								
Thomas, McNerney & Partners I	30,000,000	30,000,000	3,032,158	15,087,143	0	-8.35	0.60	15.66
Thomas, McNerney & Partners II	50,000,000	48,125,000	9,349,089	97,314,704	1,875,000	16.26	2.22	12.01
TPG Capital								
TPG Partners VII	100,000,000	69,636,389	73,674,666	6,837,318	36,442,872	14.67	1.16	2.81
Vestar Capital Partners								
Vestar Capital Partners IV	55,000,000	55,652,024	743,605	102,249,550	57,313	14.66	1.85	18.55
Vestar Capital Partners V	75,000,000	76,281,245	16,639,277	83,018,887	0	3.91	1.31	12.54
Vestar Capital Partners VI	100,000,000	100,609,153	82,078,467	114,308,447	960,325	34.09	1.95	6.77
Vestar Capital Partners VII	150,000,000	982,609	982,609	0	149,017,391	0.00	1.00	0.54
Warburg Pincus								
Warburg Pincus Equity Partners	100,000,000	100,000,000	296,524	163,542,253	0	10.03	1.64	20.02
Warburg Pincus Private Equity VIII	100,000,000	100,380,464	9,310,837	220,991,851	0	14.80	2.29	16.22
Warburg Pincus Private Equity IX	100,000,000	100,000,000	9,080,687	165,914,136	0	9.86	1.75	12.94
Warburg Pincus Private Equity X	150,000,000	150,000,000	68,943,894	164,660,202	0	8.21	1.56	10.69
Warburg Pincus Private Equity XI	200,000,000	200,299,952	184,399,135	114,838,086	0	13.72	1.49	5.53
Warburg Pincus Private Equity XII	131,000,000	69,757,500	76,110,264	1,925,700	61,242,500	9.63	1.12	2.61
Warburg Pincus China	45,000,000	28,215,000	28,384,955	1,935,000	18,720,000	13.90	1.07	1.55

Investment	Total Commitment	Total Contributions	Market Value	Distributions	Unfunded Commitment	IRR %	MOIC*	Period Years
Warburg Pincus Financial Sector	90,000,000	14,260,808	9,104,714	4,590,000	80,280,000	-5.54	0.96	0.54
Wellspring Capital Partners								
Wellspring Capital Partners VI	125,000,000	6,372,571	4,480,963	0	118,627,429	-30.07	0.70	1.80
Welsh, Carson, Anderson & Stowe								
Welsh, Carson, Anderson & Stowe X	100,000,000	98,578,466	147,896	167,690,637	2,000,000	8.15	1.70	12.55
Welsh, Carson, Anderson & Stowe XI	100,000,000	100,000,000	51,850,027	111,084,910	0	12.68	1.63	9.95
Welsh, Carson, Anderson & Stowe XII	150,000,000	90,421,217	99,825,280	17,723,566	59,578,783	17.57	1.30	3.53
Windjammer Capital Investors								
Windjammer Mezzanine & Equity Fund II	66,708,861	55,215,684	63,870	84,876,800	10,139,363	8.94	1.54	18.26
Windjammer Senior Equity Fund III	75,000,000	62,684,411	259,538	154,618,016	13,380,380	19.54	2.47	12.50
Windjammer Senior Equity Fund IV	100,000,000	78,741,414	87,191,590	12,600,533	29,180,469	8.07	1.27	6.35
Windjammer Senior Equity Fund V	100,000,000	0	0	0	100,000,000	0.00	0.00	0.62
II. PRIVATE CREDIT								
<i>II. PRIVATE CREDIT</i> Audax Group								
	100,000,000	93,494,475	31,052,296	87,453,849	8,142,866	9.10	1.27	8.24
Audax Group	100,000,000 100,000,000	93,494,475 25,760,944	31,052,296 21,024,739	87,453,849 7,075,921	8,142,866 76,103,754	9.10 12.04	1.27 1.09	8.24 3.23
Audax Group Audax Mezzanine Fund III								
Audax Group Audax Mezzanine Fund III Audax Mezzanine Fund IV							1.09	
Audax Group Audax Mezzanine Fund III Audax Mezzanine Fund IV BlackRock	100,000,000	25,760,944	21,024,739	7,075,921	76,103,754	12.04	1.09	3.23
Audax Group Audax Mezzanine Fund III Audax Mezzanine Fund IV BlackRock BlackRock Middle Market Senior Fund	100,000,000	25,760,944	21,024,739	7,075,921	76,103,754	12.04	1.09	3.23
Audax Group Audax Mezzanine Fund III Audax Mezzanine Fund IV BlackRock BlackRock Middle Market Senior Fund Crescent Capital Group	100,000,000 250,000,000	25,760,944 0	21,024,739 0	7,075,921 0	76,103,754 250,000,000	12.04 0.00	1.09 0.00	3.23 0.21
Audax Group Audax Mezzanine Fund III Audax Mezzanine Fund IV BlackRock BlackRock Middle Market Senior Fund Crescent Capital Group TCW/Crescent Mezzanine Partners III	100,000,000 250,000,000	25,760,944 0	21,024,739 0	7,075,921 0	76,103,754 250,000,000	12.04 0.00	1.09 0.00 2.01	3.23 0.21
Audax Group Audax Mezzanine Fund III Audax Mezzanine Fund IV BlackRock BlackRock Middle Market Senior Fund Crescent Capital Group TCW/Crescent Mezzanine Partners III GS Mezzanine Partners	100,000,000 250,000,000 75,000,000	25,760,944 0 79,161,593	21,024,739 0 2,453,737	7,075,921 0 156,868,939	76,103,754 250,000,000 29,733,852	12.04 0.00 35.87	1.09 0.00 2.01 1.19	3.23 0.21 17.26
Audax Group Audax Mezzanine Fund III Audax Mezzanine Fund IV BlackRock BlackRock Middle Market Senior Fund Crescent Capital Group TCW/Crescent Mezzanine Partners III GS Mezzanine Partners GS Mezzanine Partners 2006	100,000,000 250,000,000 75,000,000 100,000,000	25,760,944 0 79,161,593 113,422,293	21,024,739 0 2,453,737 1,302,951	7,075,921 0 156,868,939 134,136,541	76,103,754 250,000,000 29,733,852 9,858,563	12.04 0.00 35.87 4.99	1.09 0.00 2.01 1.19	3.23 0.21 17.26 12.24
Audax Group Audax Mezzanine Fund III Audax Mezzanine Fund IV BlackRock BlackRock Middle Market Senior Fund Crescent Capital Group TCW/Crescent Mezzanine Partners III GS Mezzanine Partners GS Mezzanine Partners 2006 GS Mezzanine Partners V	100,000,000 250,000,000 75,000,000 100,000,000	25,760,944 0 79,161,593 113,422,293	21,024,739 0 2,453,737 1,302,951	7,075,921 0 156,868,939 134,136,541	76,103,754 250,000,000 29,733,852 9,858,563	12.04 0.00 35.87 4.99	1.09 0.00 2.01 1.19 1.22	3.23 0.21 17.26 12.24
Audax Group Audax Mezzanine Fund III Audax Mezzanine Fund IV BlackRock BlackRock Middle Market Senior Fund Crescent Capital Group TCW/Crescent Mezzanine Partners III GS Mezzanine Partners GS Mezzanine Partners 2006 GS Mezzanine Partners V Gold Hill Venture Lending	100,000,000 250,000,000 75,000,000 100,000,000 150,000,000	25,760,944 0 79,161,593 113,422,293 147,682,304	21,024,739 0 2,453,737 1,302,951 2,207,742	7,075,921 0 156,868,939 134,136,541 177,988,948	76,103,754 250,000,000 29,733,852 9,858,563 37,594,230	12.04 0.00 35.87 4.99 8.96	1.09 0.00 2.01 1.19 1.22	3.23 0.21 17.26 12.24 10.69

Investment	Total Commitment	Total Contributions	Market Value	Distributions	Unfunded Commitment	IRR %	MOIC*	Period Years
KKR Lending Partners II	75,000,000	85,387,328	47,479,271	55,470,003	8,802,924	12.97	1.21	3.33
KKR Lending Partners III	192,000,000	38,955,000	42,740,647	0	153,045,000	18.29	1.10	1.23
LBC Credit Partners								
LBC Credit Partners IV	100,000,000	47,494,427	47,542,770	5,210,291	54,422,909	12.98	1.11	2.17
Merit Capital Partners								
Merit Mezzanine Fund IV	75,000,000	70,178,571	18,731,525	109,445,558	4,821,429	10.73	1.83	13.55
Merit Mezzanine Fund V	75,000,000	70,420,408	42,955,053	56,493,628	4,579,592	9.44	1.41	8.54
Merit Mezzanine Fund VI	100,000,000	32,302,603	36,101,158	0	67,630,597	9.61	1.12	2.27
Portfolio Advisors								
DLJ Investment Partners II	27,375,168	24,490,887	86,563	34,829,566	0	10.37	1.43	18.51
DLJ Investment Partners III	100,000,000	82,719,050	555,169	96,478,980	3,158,038	6.83	1.17	12.03
Prudential Capital Partners								
Prudential Capital Partners II	100,000,000	96,836,869	6,173,073	135,809,660	11,247,372	8.94	1.47	13.01
Prudential Capital Partners III	100,000,000	99,465,073	17,062,152	149,067,741	15,524,686	13.66	1.67	9.21
Prudential Capital Partners IV	100,000,000	102,385,264	71,828,269	56,066,122	6,590,872	10.26	1.25	6.45
Prudential Capital Partners V	150,000,000	52,925,587	56,829,965	3,985,966	98,603,003	25.51	1.15	1.87
Summit Partners								
Summit Subordinated Debt Fund III	45,000,000	44,088,494	6,806,976	58,922,343	2,250,000	9.37	1.49	14.38
Summit Subordinated Debt Fund IV	50,000,000	55,837,807	14,821,823	60,501,330	19,926,329	10.18	1.35	10.26
TCW Asset Management								
TCW Direct Lending	100,000,000	83,599,652	58,791,868	38,514,287	25,329,409	9.63	1.16	3.78
Private Credit Total	2,230,227,752	1,512,461,214	540,924,098	1,522,552,286	887,365,424	12.13	1.36	
III. REAL ASSETS								
BlackRock								
BlackRock Global Renewable Power Fund II	98,500,000	58,906,799	57,244,584	537,604	41,185,768	-3.40	0.98	2.60
EIG Global Energy Partners								
EIG Energy Fund XIV	100,000,000	113,177,137	11,418,649	93,219,713	2,761,129	-2.83	0.92	11.21
EIG Energy Fund XV	150,000,000	157,463,062	88,475,166	101,488,148	22,871,323	5.49	1.21	8.07
EIG Energy Fund XVI	200,000,000	167,135,268	147,170,360	53,304,577	68,797,014	9.47	1.20	4.80

Investment	Total	Total	Market	Distributions	Unfunded	IRR		Period
	Commitment	Contributions	Value		Commitment	%	MOIC*	Years
EnCap Energy								
EnCap Energy Capital Fund VII	100,000,000	105,344,451	6,945,888	133,001,117	0	14.69	1.33	11.01
EnCap Energy Capital Fund VIII	100,000,000	94,422,340	31,447,771	52,671,359	9,383,470	-3.55	0.89	7.75
Encap Energy Capital Fund IX	100,000,000	107,160,285	73,460,856	68,018,567	9,251,971	14.09	1.32	5.56
EnCap Energy Capital Fund X	100,000,000	77,732,954	71,374,919	16,769,138	30,053,789	11.16	1.13	3.32
EnerVest Energy								
EnerVest Energy Institutional Fund XIV	100,000,000	92,903,263	90,246,917	10,462,396	8,851,531	4.33	1.08	3.06
Energy Capital Partners								
Energy Capital Partners II	100,000,000	85,152,089	30,085,441	102,587,105	29,749,110	12.25	1.56	7.95
Energy Capital Partners III	200,000,000	188,345,465	195,776,809	22,707,874	30,657,688	10.06	1.16	4.53
Energy Capital Partners IV	105,808,339	27,036,117	25,782,452	72,619	78,772,222	-4.55	0.96	0.50
Energy & Minerals Group								
NGP Midstream & Resources	100,000,000	102,829,196	57,922,975	134,013,054	230,871	14.54	1.87	11.26
The Energy & Minerals Group Fund II	100,000,000	102,893,225	110,875,231	70,328,585	3,006,959	15.38	1.76	6.77
The Energy & Minerals Group Fund III	200,000,000	190,260,729	161,731,207	11,572,646	11,751,224	-2.92	0.91	4.32
The Energy & Minerals Group Fund IV	150,000,000	93,528,930	115,464,752	15,776,674	70,278,465	18.25	1.40	2.67
First Reserve								
First Reserve Fund X	100,000,000	100,000,000	347,478	182,429,002	0	31.05	1.83	13.67
First Reserve Fund XI	150,000,000	150,292,121	8,107,918	94,066,313	0	-8.40	0.68	11.53
First Reserve Fund XII	150,000,000	163,010,444	33,419,563	80,719,259	2,606,600	-8.16	0.70	9.67
First Reserve Fund XIII	200,000,000	104,496,244	100,247,017	22,177,437	97,742,373	10.62	1.17	4.66
Kohlberg, Kravis, Roberts & Co.								
KKR Global Infrastructure Investors III	149,850,000	0	0	0	149,850,000	0.00	0.00	0.26
Merit Energy Partners								
Merit Energy Partners B	24,000,000	24,000,000	7,998,384	184,828,016	0	24.30	8.03	21.45
Merit Energy Partners C	50,000,000	50,000,000	20,315,178	501,469,067	0	31.19	10.44	19.68
Merit Energy Partners D	88,000,000	70,938,303	32,631,552	314,767,281	0	23.73	4.90	17.11
Merit Energy Partners E	100,000,000	39,983,197	17,378,306	75,513,608	0	16.30	2.32	13.75
Merit Energy Partners F	100,000,000	59,522,861	19,798,913	27,510,575	0	-3.75	0.79	12.28
Merit Energy Partners H	100,000,000	100,000,000	73,186,972	24,238,423	0	-0.66		7.41
Merit Energy Partners I	169,721,518	146,099,999	186,471,373	24,839,059	23,621,519	21.44	1.45	3.70
NCD	107,721,010	110,077,777	100, 11, 575	21,007,007	20,021,017	21.77	1.75	5.70

NGP

Investment	Total Commitment	Total Contributions	Market Value	Distributions	Unfunded Commitment	IRR %	MOIC*	Period Years
Natural Gas Partners IX	150,000,000	173,372,658	1,120,611	244,359,789	1,153,855	11.86	1.42	10.69
NGP Natural Resources X	150,000,000	141,804,796	73,389,549	94,628,121	8,195,204	5.57	1.18	6.73
Natural Gas Capital Resources XI	150,000,000	129,441,690	146,545,366	19,584,340	26,753,646	20.24	1.28	3.56
NGP Natural Resources XII	149,500,000	30,917,697	29,089,734	0	118,638,901	-7.98	0.94	0.92
Sheridan								
Sheridan Production Partners I	100,000,000	116,552,260	68,552,017	82,750,000	0	5.84	1.30	11.26
Sheridan Production Partners II	100,000,000	103,500,000	49,114,957	7,000,000	3,500,000	-11.97	0.54	7.75
Sheridan Production Partners III	100,000,000	34,353,005	36,013,994	14,700,000	65,650,000	24.72	1.48	3.56
Real Assets Total	4,285,379,857	3,502,576,586	2,179,152,859	2,882,111,465	915,314,632	15.55	1.44	
IV. REAL ESTATE								
Angelo, Gordon & Co.								
AG Realty Fund IX	100,000,000	71,772,308	74,925,706	8,000,000	32,150,000	10.12	1.16	3.56
AG Asia Realty Fund III	50,000,000	38,694,396	39,665,588	5,000,000	15,196,250	15.21	1.15	1.75
AG Europe Realty Fund II	75,000,000	13,312,500	12,765,476	28,384	61,687,500	-7.77	0.96	1.03
Blackstone Real Estate Partners								
Blackstone Real Estate Partners V	100,000,000	104,213,007	17,458,796	189,842,220	4,174,052	10.89	1.99	12.18
Blackstone Real Estate Partners VI	100,000,000	109,427,250	12,323,720	205,580,301	4,907,906	13.11	1.99	11.26
Blackstone Real Estate Partners VII	100,000,000	105,806,706	80,860,229	101,943,147	15,126,809	17.76	1.73	6.59
Blackstone Real Estate Partners VIII	150,000,000	100,468,371	88,710,288	34,968,826	79,860,956	14.89	1.23	3.26
Blackstone Real Estate Partners Asia II	75,000,000	2,778,946	2,720,680	0	72,221,054	-2.21	0.98	0.77
Blackstone Strategic Partners (CSFB)								
Strategic Partners III RE	25,000,000	25,973,891	2,703,932	12,799,240	9,006	-6.46	0.60	13.01
Strategic Partners IV RE	50,000,000	51,324,079	8,085,261	43,218,017	1,216,289	-0.01	1.00	10.04
Carlyle Group								
Carlyle Realty Partners VIII, L.P.	150,000,000	1,392,693	0	0	148,616,174	0.00	0.00	1.15
Colony Capital								
Colony Investors III	100,000,000	99,660,860	4,694,100	172,642,105	0	14.53	1.78	20.51
Landmark Partners								
Landmark Real Estate Partners VIII	149,500,000	17,052,809	18,695,237	7,178,770	132,734,021	55.70	1.52	1.54

Investment	Total Commitment	Total Contributions	Market Value Distributions		Unfunded Commitment	IRR %	MOIC*	Period Years	
Lubert Adler									
Lubert-Adler Real Estate Fund VII	74,147,868	32,364,976	30,768,101	1,250,230	42,635,024	-2.25	0.99	1.7.	
Rockpoint									
Rockpoint Real Estate Fund V	100,000,000	61,006,680	58,187,692	9,022,211	52,351,419	9.10	1.10	3.4	
Rockwood									
Rockwood Capital RE Partners X	100,000,000	42,538,664	41,896,945	1,500,000	57,384,396	1.89	1.02	2.9	
Silverpeak Real Estate Partners									
Silverpeak Legacy Pension Partners II	75,000,000	72,924,170	3,086,139	89,530,830	7,640,900	4.25	1.27	12.9	
Silverpeak Legacy Pension Partners III	150,000,000	70,331,227	15,655,581	9,753,200	79,673,323	-11.91	0.36	10.1	
T.A. Associates Realty									
Realty Associates Fund VIII	100,000,000	100,000,000	16,788,659	81,790,937	0	-0.17	0.99	12.0	
Realty Associates Fund IX	100,000,000	100,000,000	610,962	159,608,332	0	10.43	1.60	9.8	
Realty Associates Fund X	100,000,000	100,000,000	63,344,429	85,194,501	0	12.17	1.49	6.	
Realty Associates Fund XI	100,000,000	100,000,000	103,644,800	2,135,499	0	5.61	1.06	3.	
Real Estate Total	2,123,647,868	1,421,043,533	697,592,321	1,220,986,750	807,585,079	7.97	1.35		
Real Estate Total V. DISTRESSED/ OPPORTUNISTIC	2,123,647,868	1,421,043,533	697,592,321	1,220,986,750	807,585,079	7.97	1.35		
V. DISTRESSED/ OPPORTUNISTIC	2,123,647,868	1,421,043,533	697,592,321	1,220,986,750	807,585,079	7.97	1.35		
V. DISTRESSED/ OPPORTUNISTIC	<b>2,123,647,868</b> 100,000,000	<b>1,421,043,533</b> 100,977,328	<b>697,592,321</b> 121,718,100	<b>1,220,986,750</b> 934,495	<b>807,585,079</b> 0	<b>7.97</b> 7.74	1.35 1.21	4.	
V. DISTRESSED/ OPPORTUNISTIC Avenue Capital Partners									
V. DISTRESSED/ OPPORTUNISTIC Avenue Capital Partners Avenue Energy Opportunities Fund Avenue Energy Opportunities Fund II	100,000,000	100,977,328	121,718,100	934,495	0	7.74	1.21		
V. DISTRESSED/ OPPORTUNISTIC Avenue Capital Partners Avenue Energy Opportunities Fund Avenue Energy Opportunities Fund II	100,000,000	100,977,328	121,718,100	934,495	0	7.74	1.21 0.97	1.	
V. DISTRESSED/ OPPORTUNISTIC Avenue Capital Partners Avenue Energy Opportunities Fund Avenue Energy Opportunities Fund II BlackRock** BlackRock Tempus Fund	100,000,000 100,000,000	100,977,328 65,000,000	121,718,100 63,354,395	934,495 0	0 35,000,000	7.74 -5.11	1.21 0.97	1.	
V. DISTRESSED/ OPPORTUNISTIC Avenue Capital Partners Avenue Energy Opportunities Fund Avenue Energy Opportunities Fund II BlackRock** BlackRock Tempus Fund Carlyle Group	100,000,000 100,000,000 1,774,870	100,977,328 65,000,000	121,718,100 63,354,395	934,495 0	0 35,000,000	7.74 -5.11	1.21 0.97	1. 3.	
V. DISTRESSED/ OPPORTUNISTIC Avenue Capital Partners Avenue Energy Opportunities Fund Avenue Energy Opportunities Fund II BlackRock** BlackRock Tempus Fund Carlyle Group Carlyle Strategic Partners IV	100,000,000 100,000,000	100,977,328 65,000,000 1,774,870	121,718,100 63,354,395 639,937	934,495 0 1,384,701	0 35,000,000 0	7.74 -5.11 9.48	1.21 0.97 1.14	1. 3.	
V. DISTRESSED/ OPPORTUNISTIC Avenue Capital Partners Avenue Energy Opportunities Fund Avenue Energy Opportunities Fund II BlackRock** BlackRock Tempus Fund Carlyle Group Carlyle Strategic Partners IV	100,000,000 100,000,000 1,774,870	100,977,328 65,000,000 1,774,870	121,718,100 63,354,395 639,937	934,495 0 1,384,701	0 35,000,000 0	7.74 -5.11 9.48	1.21 0.97 1.14 1.11	1. 3. 2.2	
V. DISTRESSED/ OPPORTUNISTIC Avenue Capital Partners Avenue Energy Opportunities Fund Avenue Energy Opportunities Fund II BlackRock** BlackRock Tempus Fund Carlyle Group Carlyle Strategic Partners IV Carval Investors	100,000,000 100,000,000 1,774,870 100,000,000	100,977,328 65,000,000 1,774,870 17,449,606	121,718,100 63,354,395 639,937 14,707,631	934,495 0 1,384,701 4,674,546 291,562,042	0 35,000,000 0 87,183,049	7.74 -5.11 9.48 11.99	1.21 0.97 1.14 1.11	1. 3. 2. 11.	
V. DISTRESSED/ OPPORTUNISTIC Avenue Capital Partners Avenue Energy Opportunities Fund Avenue Energy Opportunities Fund II BlackRock** BlackRock Tempus Fund Carlyle Group Carlyle Strategic Partners IV Carval Investors CVI Global Value Fund	100,000,000 100,000,000 1,774,870 100,000,000 200,000,000	100,977,328 65,000,000 1,774,870 17,449,606 190,000,000	121,718,100 63,354,395 639,937 14,707,631 28,085,522	934,495 0 1,384,701 4,674,546 291,562,042 183,039,526	0 35,000,000 0 87,183,049 10,000,000	7.74 -5.11 9.48 11.99 9.55	1.21 0.97 1.14 1.11 1.68	1. 3.0 2.2 11.4 7.7	
V. DISTRESSED/ OPPORTUNISTIC Avenue Capital Partners Avenue Energy Opportunities Fund Avenue Energy Opportunities Fund II BlackRock** BlackRock Tempus Fund Carlyle Group Carlyle Group Carlyle Strategic Partners IV Carval Investors CVI Global Value Fund CVI Credit Value Fund I	100,000,000 100,000,000 1,774,870 100,000,000 200,000,000 100,000,000	100,977,328 65,000,000 1,774,870 17,449,606 190,000,000 95,000,000	121,718,100 63,354,395 639,937 14,707,631 28,085,522 28,089,785	934,495 0 1,384,701 4,674,546 291,562,042	0 35,000,000 0 87,183,049 10,000,000 5,000,000	7.74 -5.11 9.48 11.99 9.55 18.73	1.21 0.97 1.14 1.11 1.68 2.22	4.0 1.1 3.0 2.2 11.4 7.7 5.0 3.0	

Investment	Total	Total	Market	Distributions	Unfunded	IRR		Period
nivestment	Commitment	Contributions	Value	Distributions	Commitment	%	MOIC*	Years
Merced Capital								
Merced Partners II	75,000,000	63,768,881	287,532	130,393,875	0	23.97	2.05	11.25
Merced Partners III	100,000,000	100,000,000	45,157,314	88,997,107	0	6.34	1.34	8.15
Merced Partners IV	125,000,000	124,968,390	97,894,524	59,372,049	0	7.04	1.26	4.97
Merced Partners V	53,737,500	53,915,358	59,874,376	0	0	12.49	1.11	1.00
MHR Institutional Partners								
MHR Institutional Partners IV	75,000,000	30,559,392	26,240,384	2,014,108	46,396,136	-4.97	0.92	4.03
Oaktree Capital Management								
Oaktree Principal Fund VI	100,000,000	62,524,537	61,427,694	13,606,490	49,951,405	18.66	1.20	3.50
Oaktree Opportunities Fund X	50,000,000	35,000,000	37,312,470	5,619,660	20,000,000	17.56	1.23	3.38
Oaktree Opportunities Fund Xb	100,000,000	2,500,000	2,500,000	0	97,500,000	0.00	1.00	3.38
Oaktree Special Situations Fund II	100,000,000	0	0	0	100,000,000	0.00	0.00	0.18
Pimco Bravo**								
Pimco Bravo Fund OnShore Feeder I	3,958,027	3,958,027	248,943	3,937,010	2,306,448	5.39	1.06	3.50
Pimco Bravo Fund OnShore Feeder II	5,243,670	4,667,339	4,225,781	1,678,740	2,257,050	6.82	1.27	3.50
TSSP								
TSSP Adjacent Opportunities Partners	50,000,000	0	0	0	50,000,000	0.00	0.00	0.24
Varde Fund								
Varde Fund IX	100,000,000	100,000,000	3,453,284	212,664,809	0	15.02	2.16	10.02
Varde Fund X	150,000,000	150,000,000	71,122,243	227,280,360	0	12.65	1.99	8.20
Varde Fund XI	200,000,000	200,000,000	214,741,263	63,860,162	0	7.89	1.39	4.98
Wayzata								
Wayzata Opportunities Fund	100,000,000	93,180,000	519,166	156,425,778	18,920,000	8.42	1.68	12.53
Wayzata Opportunities Fund II	150,000,000	174,750,000	8,850,819	319,228,413	30,000,000	16.47	1.88	10.69
Wayzata Opportunities Fund III	150,000,000	68,415,000	36,021,421	32,728,171	15,000,000	0.18	1.00	6.04
Distressed/Opportunistic Total	2,739,714,067	2,031,112,061	1,177,175,565	1,936,392,670	727,014,089		1.53	
Private Markets Total	23,610,832,423	16,886,534,110	9,388,289,701	16,103,136,870	7,659,259,349	12.37	1.50	

Turnortmont	Total	Total	Market	Distributions	Unfunded	IRR		Period
Investment	Commitment	Contributions	Value	Distributions	Commitment	%	<b>MOIC*</b>	Years

Private Markets Portfolio Status	Investment Manager Count	Investments Count
PRIVATE EQUITY	50	120
PRIVATE CREDIT	12	23
REAL ASSETS	11	35
REAL ESTATE	11	22
DISTRESSED/ OPPORTUNISTIC	11	27
Total	95	227

#### <u>Notes</u>

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.

\* MOIC: Multiple of Invested Capital

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

**Quarterly Report** 

# Participant Directed Investment Program June 30, 2018



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**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 a program which provides individuals the opportunity to invest in many of the same investment pools as the Combined Funds. Participation in the SIF is accomplished through the purchase or sale of shares in each Fund. The SIF is 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 statutory requirements and rules established by the participating organizations. It provides some or all of the investment options for the Unclassified Employees Retirement Plan, Minnesota Deferred Compensation Plan, Public Employees Defined Contribution Plan, Hennepin County Supplemental Retirement Plan, and Health Care Savings Plan. All Funds in the SIF program, except the Stable Value Fund, are available to local volunteer fire relief associations who invest their assets with the SBI. The Volunteer Firefighter Account is available only for those local firefighter entities that participate in the Statewide Volunteer Firefighter Plan. Local entities that participate in this Plan must have all their assets invested in the Volunteer Firefighter Account.
- The Minnesota Deferred Compensation Plan offers plan participants three sets of investment options. The first is a set of actively and passively managed options that includes four mutual funds, a Money Market Fund, a Stable Value Fund and five passively managed mutual funds. 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. The Minnesota Deferred Compensation Plan uses two of the SIF investment options, the Stable Value Fund and the Money Market Fund, for its participants.
- The Minnesota College Savings Plan is an education savings plan designed to help families set aside funds for future college costs. It is established under the provisions of the Internal Revenue Code Section 529, which authorized these types of savings plans to help families meet the costs of qualified colleges nationwide. 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 Minnesota Achieve a Better Life Experience Plan (ABLE) 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 program that offers a range of investment options to state and local public employees. The SIF provides some or all of the investment options to the Unclassified Employees Retirement Plan, Minnesota Deferred Compensation Plan, Public Employees Defined Contribution Plan, Hennepin County Supplemental Retirement Plan, Health Care Savings Plan, local police and firefighter retirement 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	\$443,928,458	2.3%	8.9%	7.8%	9.0%	8.1%	01/1980
U.S. ACTIVELY MANAGED FUND	259,911,942	5.2	18.2	12.1	13.9	10.5	07/1986
U.S. STOCK INDEX FUND	614,526,590	3.9	14.8	11.6	13.3	10.3	07/1986
BROAD INTERNATIONAL STOCK FUND	195,969,302	-2.4	7.5	5.3	6.4	3.1	09/1994
BOND FUND	171,064,922	0.0	0.1	2.3	2.8	4.4	07/1986
MONEY MARKET FUND	404,023,579	0.5	1.5	0.9	0.6	0.5	07/1986
STABLE VALUE FUND	1,553,732,886	0.6	2.2	2.1	2.0	2.9	11/1994
VOLUNTEER FIREFIGHTER ACCOUNT	88,331,359	1.0	6.3	6.0	6.9		01/2010
TOTAL SUPPLEMENTAL INVESTMENT FUND	3,731,489,041						

Note:

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





# **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% Barclays Aggregate Bond Index/5% T-Bills Composite.

	Ending Market Value	Last Qtr	<u>1 Year</u>	<u>3 Year</u>	<u>5 Year</u>	10 Year
BALANCED FUND	\$443,928,458	2.3%	8.9%	7.8%	9.0%	8.1%
SIF BALANCED FUND BENCHMARK		2.3	8.7	7.6	8.8	7.5
Excess		0.1	0.2	0.2	0.2	0.6

# **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	<u>3 Year</u>	5 Year	10 Year
U.S. ACTIVELY MANAGED FUND	259,911,942	5.2	18.2	12.1	13.9	10.5
Russell 3000		3.9	14.8	11.6	13.3	10.2
Excess		1.3	3.4	0.5	0.6	0.2





# 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	<u>1 Year</u>	<u>3 Year</u>	5 Year	10 Year
U.S. STOCK INDEX FUND	\$614,526,590	3.9%	14.8%	11.6%	13.3%	10.3%
Russell 3000		3.9	14.8	11.6	13.3	10.2
Excess		-0.0	-0.0	0.0	0.0	0.0

# **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	195,969,302	-2.4	7.5	5.3	6.4	3.1
International Equity Benchmark		-2.6	7.3	5.1	6.0	2.5
Excess		0.2	0.2	0.2	0.4	0.5





# **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 Barclays U.S. Aggregate.

	Ending Market Value	Last Qtr	<u>1 Year</u>	3 Year	5 Year	10 Year
BOND FUND	\$171,064,922	0.0%	0.1%	2.3%	2.8%	4.4%
BBG BARC US Agg		-0.2	-0.4	1.7	2.3	3.7
Excess		0.2	0.5	0.5	0.5	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	<u>1 Year</u>	<u>3 Year</u>	5 Year	10 Year
MONEY MARKET FUND	404,023,579	0.5	1.5	0.9	0.6	0.5
90 DAY T-BILL		0.5	1.4	0.7	0.4	0.4
Excess		0.0	0.2	0.2	0.2	0.2





# 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	<u>1 Year</u>	3 Year	5 Year	10 Year
STABLE VALUE FUND	\$1,553,732,886	0.6%	2.2%	2.1%	2.0%	2.9%
Fixed Interest Blended Benchmark		0.8	2.4	1.8	1.6	1.5
Excess		-0.2	-0.1	0.2	0.4	1.4

# **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 Barclays U.S. Aggregate, 5% 3 Month T-Bills.

	Ending Market Value	Last Qtr	1 Year	<u>3 Year</u>	5 Year	10 Year
VOLUNTEER FIREFIGHTER ACCOUNT	88,331,359	1.0	6.3	6.0	6.9	
SIF Volunteer Firefighter Account BM		0.9	6.1	5.7	6.7	
Excess		0.1	0.2	0.3	0.3	





The Deferred Compensation Plan provides public employees with a tax-sheltered retirement savings plan that is supplemental to their primary retirement plan. (In most cases, the primary plan is a defined benefit plan administered by TRA, PERA, or MSRS.)

Participants choose from 4 actively managed stock and bond funds, 5 passively managed stock and bond funds and a set of 10 target date retirement fund options.

Deferred Compensation Plan participants may also invest in the money market option and stable value option in the Supplemental Investment Fund program. All provide for the daily pricing needs of the plan administrator. In addition, participants may also choose from hundreds of funds available through a mutual fund brokerage window. The current plan structure became effective July 1, 2011.

	Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	10 Year	<b>Option Since</b>
VANGUARD INSTITUTIONAL INDEX PLUS	\$1,258,796,587	3.4%	14.4%	11.9%	13.4%	10.2%	07/1999
VANGUARD DIVIDEND GROWTH	612,686,535	3.0	10.6				10/2016
VANGUARD MID CAP INDEX	546,657,223	2.6	12.1	9.2	12.3	10.1	01/2004
T. ROWE PRICE SMALL-CAP STOCK	732,333,810	6.7	18.3	11.9	13.3	13.5	04/2000
FIDELITY DIVERSIFIED INTERNATIONAL	309,065,535	-0.9	6.0	4.0	7.2	3.0	07/1999
VANGUARD TOTAL INTERNATIONAL STOCK INDEX	200,927,707	-3.2	7.1	5.4	6.5		07/2011
VANGUARD BALANCED INDEX	785,660,076	2.3	8.6	7.7	8.9	8.0	12/2003
DODGE & COX INCOME	240,234,256	-0.3	0.4	2.6	3.1	4.9	07/1999
VANGUARD TOTAL BOND MARKET INDEX	209,005,746	-0.2	-0.5	1.7	2.2	3.7	12/2003
2020 FUND	120,196,906	0.8	4.7	4.4	5.3		07/2011
2025 FUND	123,882,517	0.9	6.1	5.5	6.7		07/2011
2030 FUND	86,164,748	0.9	7.7	6.6	7.8		07/2011
2035 FUND	68,040,876	0.9	8.5	7.1	8.3		07/2011
2040 FUND	49,679,459	1.0	9.4	7.5	8.8		07/2011
2045 FUND	41,873,729	1.1	10.1	7.9	9.2		07/2011
2050 FUND	31,752,795	1.2	10.7	8.2	9.5		07/2011
2055 FUND	16,731,761	1.2	10.7	8.2	9.5		07/2011
2060 FUND	15,645,346	1.2	10.7	8.2	9.5		07/2011
INCOME FUND	87,987,494	0.8	4.0	3.8	4.1		07/2011
TD Ameritrade SDB	74,241,306						08/2017
TD Ameritrade SDB Roth	676,188						08/2017
Total Deferred Compensation Plan	5,612,240,602						



LARGE CAP EQUITY

# **Deferred Compensation Plan Options**



# Vanguard Index Institutional Plus (passive) A passive domestic stock portfolio that tracks the S&P 500. Vanguard Dividend Growth (active) (1) A fund of large cap stocks which is expected to outperform the Nasdaq US Dividend Achievers Select Index, over time. <u>MID CAP EQUITY</u> Vanguard Mid Cap Index (passive) (2) A fund that passively invests in companies with medium market capitalizations that tracks the CRSP US Mid-Cap Index. <u>SMALL CAP EQUITY</u> T Rowe Price Small Cap (active) A fund that invests primarily in companies with small market capitalizations and is expected to outperform the Russell 2000 Index.

# **INTERNATIONAL EQUITY**

# **Fidelity Diversified International (active)**

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

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 developed and emerging markets, excluding the United States.

	Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	Option Since
Large Cap US Equity						
VANGUARD INSTITUTIONAL INDEX PLUS	\$1,258,796,587	3.4%	14.4%	11.9%	13.4%	07/1999
S&P 500		3.4	14.4	11.9	13.4	07/1999
Excess		-0.0	-0.0	-0.0	-0.0	
VANGUARD DIVIDEND GROWTH	612,686,535	3.0	10.6			10/2016
NASDAQ US Dividend Achievers Select		1.1	11.9			10/2016
Excess		1.9	-1.3			
Mid Cap US Equity						
VANGUARD MID CAP INDEX	546,657,223	2.6	12.1	9.2	12.3	01/2004
CRSP US Mid Cap Index		2.6	12.1	9.2	12.4	01/2004
Excess		-0.0	-0.0	-0.0	-0.0	
Small Cap US Equity						
T. ROWE PRICE SMALL-CAP STOCK	732,333,810	6.7	18.3	11.9	13.3	04/2000
Russell 2000		7.8	17.6	11.0	12.5	04/2000
Excess		-1.1	0.7	1.0	0.8	
International Equity						
FIDELITY DIVERSIFIED	309,065,535	-0.9	6.0	4.0	7.2	07/1999
MSCI EAFE FREE (NET)		-1.2	6.8	4.9	6.4	07/1999
Excess		0.3	-0.8	-0.9	0.7	
VANGUARD TOTAL INTERNATIONAL STOCK INDEX	200,927,707	-3.2	7.1	5.4	6.5	07/2011
FTSE Global All Cap ex US Index Net		-2.7	7.4	5.3	6.4	07/2011
Excess		-0.5	-0.3	0.1	0.1	



# **Deferred Compensation Options**

Excess



BALANCED	
Vanguard Balanced Index (passive) (4)	Balanced Funds
A fund that passively invests in a mix of domestic stocks and bonds. The fund is	VANGUARD BALANC
expected to track a weighted benchmark of 60% CRSP US Total Market Index/40% BB Barclays U.S. Aggregate.	Vanguard Balanced Fu Benchmark
	Excess
FIXED INCOME	
Dodge & Cox Income Fund (active)	Fixed Income
A fund that invests primarily in investment grade securities in the U.S. bond market	DODGE & COX INCO
which is expected to outperform the BB Barclays U.S. Aggregate, over time.	BBG BARC Agg Bd
	Excess
Vanguard Total Bond Market Index (passive)	
A fund that passively invests in a broad, market weighted bond index that is expected to track the BB Barclays U.S. Aggregate.	VANGUARD TOTAL E MARKET INDEX
	BBG BARC Agg Bd
SIF Money Market Fund (5)	Excess
A fund that invests in short-term debt instruments which is expected to outperform	
the return on 90-Day U.S. Treasury Bills.	MONEY MARKET FUI
	90 DAY T-BILL
STABLE VALUE	Excess
SIF Stable Value Fund (5)	
A portfolio composed of stable value instruments which are primarily investment	Stable Value

A portfolio composed of stable value instruments which are primarily investment contracts and security backed contracts. The fund is expected to outperform the STABLE V return of the 3 year Constant Maturity Treasury +45 basis points, over time. Fixed Intere

\$785,660,076	2.3%	8.6%	7.7%	8.9%	12/2003
	2.3	8.6	7.7	8.9	12/2003
	0.0	-0.0	0.0	-0.0	
240,234,256	-0.3	0.4	2.6	3.1	07/1999
	-0.2	-0.4	1.7	2.3	07/1999
	-0.2	0.8	0.9	0.8	
209,005,746	-0.2	-0.5	1.7	2.2	12/2003
	-0.2	-0.4	1.7	2.3	12/2003
	-0.0	-0.1	-0.0	-0.1	
404,023,579	0.5	1.5	0.9	0.6	07/1986
	0.5	1.4	0.7	0.4	07/1986
	0.0	0.2	0.2	0.2	
1,553,732,886	0.6	2.2	2.1	2.0	11/1994
	0.8	2.4	1.8	1.6	11/1994
	-0.2	-0.1	0.2	0.4	
	240,234,256 209,005,746 404,023,579	2.3 0.0 240,234,256 -0.3 -0.2 -0.5 -0.0 -0.2 -0.5 -0.0 -0.2 -0.5 -0.0 -0.5 -0.5 -0.6 -0.8	2.3       8.6         0.0       -0.0         240,234,256       -0.3       0.4         -0.2       -0.4         -0.2       0.8         209,005,746       -0.2       -0.4         -0.2       0.8         404,023,579       0.5       1.5         0.5       1.4       0.0       0.2         1,553,732,886       0.6       2.2         0.8       2.4       -0.8	2.3       8.6       7.7         0.0       -0.0       0.0         240,234,256       -0.3       0.4       2.6         -0.2       -0.4       1.7         -0.2       0.8       0.9         209,005,746       -0.2       -0.4       1.7         -0.2       0.8       0.9         404,023,579       0.5       1.5       0.9         0.5       1.4       0.7         0.0       0.2       0.2         1,553,732,886       0.6       2.2       2.1         0.8       2.4       1.8	2.3       8.6       7.7       8.9         0.0       -0.0       0.0       -0.0         240,234,256       -0.3       0.4       2.6       3.1         -0.2       -0.4       1.7       2.3         -0.2       0.8       0.9       0.8         209,005,746       -0.2       -0.5       1.7       2.2         -0.2       -0.4       1.7       2.3         -0.2       -0.4       1.7       2.3         -0.2       -0.4       1.7       2.3         -0.2       -0.4       1.7       2.3         -0.2       -0.4       1.7       2.3         -0.2       -0.4       1.7       2.3         -0.0       -0.1       -0.0       -0.1         -0.0       -0.1       -0.0       -0.1         -0.0       0.5       1.4       0.7       0.4         0.0       0.2       0.2       0.2       0.2         1,553,732,886       0.6       2.2       2.1       2.0         0.8       2.4       1.8       1.6

Ending Market Value Last Qtr 1 Year 3 Year 5 Year Option Since

(1) Vanguard Dividend Growth replaced the Janus Twenty Fund in the third quarter of 2016.

(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 Barclays U.S. Aggregate.

(5) SIF Money Market and SIF Fixed Interest are Supplemental Investment Fund opitons which are also offered under the Deferred Compensation Plan.





# **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.

# **Target Date Retirement Funds**

	Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	Option Since		Ending Market Value	Last Qtr	1 Year	3 Year	5 Year	Option Since
SSgA													
2020 FUND	\$120,196,906	0.8%	4.7%	4.4%	5.3%	07/2011	2045 FUND	\$41,873,729	1.1%	10.1%	7.9%	9.2%	07/2011
2020 FUND BENCHMARK		0.9	4.7	4.4	5.4	07/2011	2045 FUND BENCHMARK		1.2	10.1	7.9	9.3	07/2011
Excess		-0.0	-0.0	-0.0	-0.0		Excess		-0.1	-0.0	-0.0	-0.0	
2025 FUND	123,882,517	0.9	6.1	5.5	6.7	07/2011	2050 FUND	31,752,795	1.2	10.7	8.2	9.5	07/2011
2025 FUND BENCHMARK		0.9	6.2	5.5	6.7	07/2011	2050 FUND BENCHMARK		1.3	10.7	8.2	9.5	07/2011
Excess		-0.0	-0.0	-0.0	-0.0		Excess		-0.1	-0.0	-0.0	-0.0	
2030 FUND	86,164,748	0.9	7.7	6.6	7.8	07/2011	2055 FUND	16,731,761	1.2	10.7	8.2	9.5	07/2011
2030 FUND BENCHMARK		1.0	7.7	6.6	7.8	07/2011	2055 FUND BENCHMARK		1.3	10.7	8.2	9.5	07/2011
Excess		-0.1	-0.0	-0.0	-0.1		Excess		-0.1	-0.0	-0.0	-0.0	
2035 FUND	68,040,876	0.9	8.5	7.1	8.3	07/2011	2060 FUND	15,645,346	1.2	10.7	8.2	9.5	07/2011
2035 FUND BENCHMARK		1.0	8.6	7.1	8.4	07/2011	2060 FUND BENCHMARK		1.3	10.7	8.2	9.5	07/2011
Excess		-0.1	-0.0	-0.0	-0.0		Excess		-0.1	-0.0	-0.0	-0.0	
2040 FUND	49,679,459	1.0	9.4	7.5	8.8	07/2011	INCOME FUND	87,987,494	0.8	4.0	3.8	4.1	07/2011
2040 FUND BENCHMARK		1.1	9.4	7.5	8.9	07/2011	INCOME FUND BENCHMARK		0.8	4.0	3.8	4.2	07/2011
Excess		-0.1	-0.0	-0.0	-0.0		Excess		-0.0	-0.0	-0.0	-0.1	

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.

# AGE-BASED MANAGED ALLOCATIONS

The Age-Based Managed Allocation Option seeks to align the investment objective and level of risk, which will become more conservative as the beneficiary ages and moves closer to entering an eligible educational institution.

# **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 Barclays 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% BB Barclays 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.







# MINNESOTA COLLEGE SAVINGS PLAN Performance Statistics for the Period Ending: June 30, 2018

			Γ					
Fund Name	Ending Market	3 Months	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date
Managed Ages 0-4	\$30,705,133	1.78%	9.40%	7.96%			7.31%	8/12/2014
BB: Managed Ages 0-4		1.92%	9.25%	8.03%			7.37%	
Managed Ages 5-8	\$69,359,487	1.59%	8.02%	7.17%			6.57%	8/12/2014
BB: Managed Ages 5-8		1.69%	8.10%	7.29%			6.69%	
Managed Ages 9-10	\$66,903,408	1.38%	6.85%	6.44%			5.87%	8/12/2014
BB: Managed Ages 9-10		1.46%	6.95%	6.55%			6.00%	
Managed Ages 11-12	\$99,445,689	1.25%	5.92%	5.69%			5.17%	8/12/2014
BB: Managed Ages 11-12		1.25%	5.87%	5.73%			5.25%	
Managed Ages 13-14	\$133,817,428	0.94%	4.78%	4.86%			4.42%	8/12/2014
BB: Managed Ages 13-14		1.03%	4.80%	4.91%			4.48%	
Managed Age 15	\$81,393,680	0.79%	3.97%	4.08%			3.69%	8/12/2014
BB: Managed Age 15		0.86%	3.84%	3.95%			3.59%	
Managed Age 16	\$80,663,981	0.80%	3.56%	3.63%			3.29%	8/12/2014
BB: Managed Age 16		0.78%	3.39%	3.44%			3.11%	
Managed Age 17	\$74,964,455	0.63%	3.14%	3.21%			2.91%	8/12/2014
BB: Managed Age 17		0.70%	2.95%	2.92%			2.63%	
Managed Ages 18 & Over	\$203,399,639	0.73%	2.80%	2.78%			2.53%	8/12/2014
BB: Managed Ages 18 & Over		0.62%	2.50%	2.40%			2.14%	
U.S. and International Equity Option	\$305,801,947	2.16%	11.42%	9.34%	10.62%	7.70%	7.04%	10/ 1/2001
BB: U.S. and International Equity Option		2.39%	11.56%	9.48%	10.83%	8.18%	7.93%	





# MINNESOTA COLLEGE SAVINGS PLAN

# Performance Statistics for the Period Ending: June 30, 2018

Fund Name	Ending Market	3 Months	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date
Moderate Allocation Option	\$66,565,982	1.46%	6.95%	6.42%	7.24%	6.19%	5.20%	8/ 2/2007
BB: Moderate Allocation Option		1.46%	6.95%	6.55%	7.45%	6.64%	5.76%	
100% Fixed-Income Option	\$13,842,973	0.14%	-0.14%	1.68%	1.92%	3.06%	3.36%	8/16/2007
BB: 100% Fixed-Income Option		0.08%	0.20%	1.99%	2.30%	3.65%	4.02%	
International Equity Index Option	\$4,877,827	-3.23%	6.54%	4.87%	5.99%		5.14%	6/18/2013
BB: International Equity Index Option		-2.61%	7.16%	5.13%	6.23%		5.46%	
Money Market Option	\$11,106,395	0.39%	1.07%	0.45%	0.27%	0.18%	0.37%	11/ 1/2007
BB: Money Market Option		0.33%	0.89%	0.39%	0.24%	0.22%	0.39%	
Principal Plus Interest Option	\$116,999,934	0.40%	1.67%	1.49%	1.38%	1.91%	2.54%	10/10/2001
Citigroup 3-Month U.S. Treasury Bill		0.44%	1.33%	0.64%	0.39%	0.31%	1.27%	
Aggressive Allocation Option	\$21,571,102	1.63%	9.42%	7.91%			7.27%	8/12/2014
BB: Aggressive Allocation Option		1.92%	9.25%	8.03%			7.37%	
Conservative Allocation Option	\$10,192,694	1.91%	5.67%	4.14%			3.64%	8/18/2014
BB: Conservative Allocation Option		1.86%	5.53%	4.09%			3.61%	
Equity and Interest Accumulation Option	\$2,831,249	2.21%	8.03%	6.42%			5.96%	8/18/2014
BB: Equity and Interest Accumulation Option		2.16%	7.94%	6.12%			5.64%	
U.S. Large Cap Equity Option	\$25,360,479	3.42%	14.12%	11.67%			11.22%	8/12/2014
BB: U.S. Large Cap Equity Option		3.43%	14.37%	11.93%			11.46%	
Matching Grant	\$2,448,785	0.40%	1.67%	1.49%	1.38%	1.91%	2.56%	3/22/2002
Citigroup 3-Month U.S. Treasury Bill		0.44%	1.33%	0.64%	0.39%	0.31%	1.25%	



# Performance as of

06/30/18

Total Market Value: \$ 2,830,591

		_,,										Inception
Fund Name	Ma	rket Value	% of Plan	1 Month	3 Months	YTD	1 Year	3 Year	5 Year	10 Year	Inception	Date
Aggressive Option	\$	287,725	10.16%	0.34	2.58	1.70	10.75				12.24	12/15/16
ABLE Aggressive Custom Benchmark				0.39	2.88	1.82	11.21					
Variance				(0.05)	(0.30)	(0.12)	(0.46)					
Moderately Aggressive Option	\$	232,790	8.22%	0.26	2.11	1.31	8.89				10.34	12/15/16
ABLE Moderately Aggressive Custom Benchmark				0.34	2.43	1.48	9.40					
Variance				(0.08)	(0.32)	(0.17)	(0.51)					
Growth Option	\$	401,752	14.19%	0.27	1.80	1.07	7.28				8.49	12/15/16
ABLE Growth Custom Benchmark				0.28	1.98	1.15	7.61					
Variance				(0.01)	(0.18)	(0.08)	(0.33)					
Moderate Option	\$	324,414	11.46%	0.18	1.28	0.64	5.44				6.68	12/15/16
ABLE Moderate Custom Benchmark	Ļ	524,414	11.40%	0.18	1.28	0.81	5.84				0.08	12/13/10
Variance				(0.05)	(0.25)	(0.17)	(0.40)					
Variance				(0.05)	(0.23)	(0.17)	(0.40)					
Moderately Conservative Option	\$	284,191	10.04%	0.19	1.03	0.66	3.97				4.80	12/15/16
ABLE Moderately Conservative Custom Benchmark				0.19	1.15	0.72	4.27					
Variance				(0.00)	(0.12)	(0.06)	(0.30)					
Conservative Option	\$	520,395	18.38%	0.10	0.49	0.49	1.87				2.25	12/15/16
ABLE Conservative Custom Benchmark				0.15	0.64	0.62	2.20					
Variance				(0.05)	(0.15)	(0.13)	(0.33)					
Checking Option	\$	779,323	27.53%									03/30/17

## MINNESOTA ACHIEVE A BETTER LIFE EXPERIENCE

The Minnesota Achieve a Better Life Experience Plan (ABLE) 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.

## **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.



A ROSE NUMBER

**Quarterly Report** 

# Non-Retirement June 30, 2018



**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.





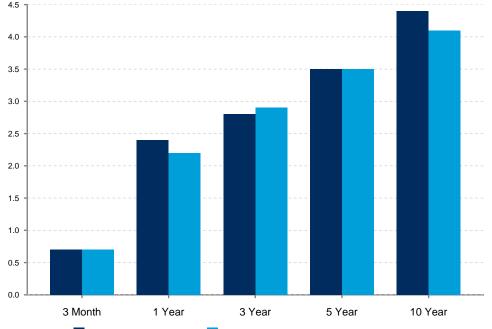
# **Assigned Risk Plan**

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 Barclays Intermediate Government 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% equities and 20% fixed income. The actual asset mix will fluctuate and is shown in the graph below.



Signed Risk Account 📃 ASSIGNED RISK - COMPOSITE INDEX

	Ending Market Value	Last Qtr	<u>1 Year</u>	<u>3 Year</u>	5 Year	10 Year
Assigned Risk Account	\$318,972,368	0.7%	2.4%	2.8%	3.5%	4.4%
EQUITIES	64,102,762	3.4	14.3	10.6	12.6	9.5
FIXED INCOME	254,869,605	0.1	-0.6	0.8	1.1	2.9
ASSIGNED RISK - COMPOSITE INDEX		0.7	2.2	2.9	3.5	4.1
Excess		0.0	0.2	-0.1	-0.0	0.3
S&P 500		3.4	14.4	11.9	13.4	10.2
BBG BARC US Gov: Int		0.1	-0.7	0.6	1.0	2.4

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.



EQUITIES 20.1%

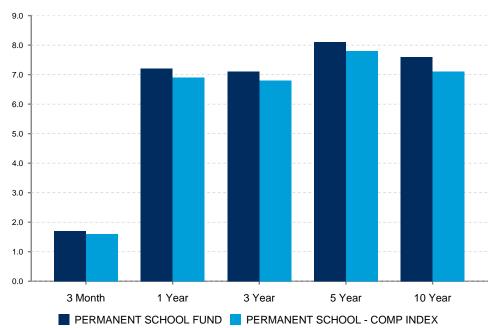


# Permanent School Fund

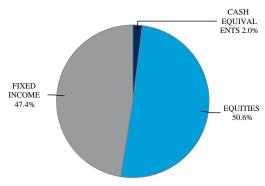
The investment objective of the Permanent School Fund is to produce a growing level of spendable income, within the constraints of maintaining adequate portfolio quality and liquidity. The income from the portfolio is transferred to the school endowment fund and distributed to Minnesota's public schools.

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 Barclays 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 \$1,391,419,583 1.7% 7.2% 7.1% 8.1% 7.6% 0.5 CASH EQUIVALENTS 28.090.120 0.5 1.4 0.7 0.5 EQUITIES 703,260,687 13.4 3.4 14.3 11.9 10.2 FIXED INCOME 660,068,776 -0.1 -0.3 2.0 2.7 4.4 FIXED INCOME 47.4% PERMANENT SCHOOL - COMP INDEX 1.6 6.9 6.8 7.8 7.1 Excess 0.0 0.3 0.2 0.2 0.5 S&P 500 3.4 14.4 11.9 13.4 10.2 BBG BARC US Agg -0.2 -0.41.7 2.3 3.7



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.



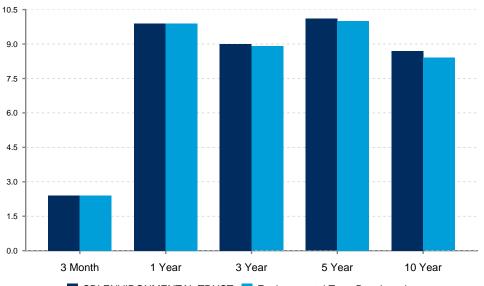


# **Environmental Trust Fund**

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 Barclays 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.



SBI ENVIRONMENTAL TRUST Environmental Trust Benchmark

	Ending Market Value	Last Qtr	1 Year	<u>3 Year</u>	5 Year	10 Year	
SBI ENVIRONMENTAL TRUST	\$1,116,133,914	2.4%	9.9%	9.0%	10.1%	8.7%	CASH EQUIVAL ENTS 1.9%
CASH EQUIVALENTS	21,255,030	0.5	1.4	0.7	0.5	0.5	FIXED INCOME
EQUITIES	791,622,694	3.4	14.3	11.9	13.4	10.2	27.2%
FIXED INCOME	303,256,190	-0.1	-0.3	2.0	2.7	4.3	
Environmental Trust Benchmark		2.4	9.9	8.9	10.0	8.4	
Excess		0.0	-0.0	0.1	0.1	0.3	
							EQUITIES 70.9%
S&P 500		3.4	14.4	11.9	13.4	10.2	10.5%
BBG BARC US Agg		-0.2	-0.4	1.7	2.3	3.7	

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.

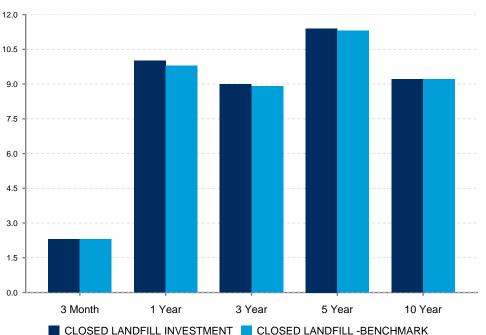




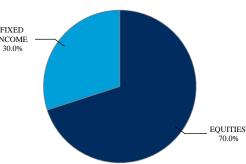
# **Closed Landfill Investment Fund**

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 are 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 Barclays 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 2.3% 10.0% 9.0% 11.4% 9.2% \$88,564,796 FIXED EQUITIES 62,019,332 3.4 14.3 11.9 13.4 10.2 INCOME 30.0% FIXED INCOME 26,545,464 -0.1 -0.32.02.3 **CLOSED LANDFILL -BENCHMARK** 9.8 8.9 11.3 9.2 0.0 0.1 0.1 0.1 0.1 Excess S&P 500 3.4 14.4 11.9 13.4 10.2 -0.2 -0.4 1.7 2.3 3.7 BBG BARC US Agg



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	<u>1 Year</u>	<u>3 Year</u>	<u>5 Year</u>	10 Year	Since Inception	Inception Date
MELLON	2,201,265,745	3.4							12/2017
S&P 500 INDEX (DAILY)	, - , - , -	3.4							12/2017
Excess		-0.0							/_0
EXCOUNT		0.0							
SBI INTERNAL EQUITY INDEX	274								
NON RETIREMENT EQUITY	2,201,266,019	3.4	14.3	14.3	11.9	13.4	10.2	9.7	07/1993
S&P 500 INDEX (DAILY)		3.4	14.4	14.4	11.9	13.4	10.2	9.6	07/1993
Excess		-0.0	-0.0	-0.0	0.0	-0.0	0.0	0.1	
PRUDENTIAL	1,148,360,681	-0.1							12/2017
BBG BARC Agg (Dly)		-0.2							12/2017
Excess		0.1							
NON RETIREMENT FIXED	1,148,360,681	-0.1	-0.4	-0.4	2.0	2.7	4.3	5.9	07/1994
BBG BARC Agg (Dly)		-0.2	-0.4	-0.4	1.7	2.3	3.7	5.4	07/1994
Excess		0.1	0.0	0.0	0.3	0.4	0.6	0.5	
RBC	254,869,642	0.1	-0.6	-0.6	0.8	1.1	2.9	4.8	07/1991
RBC Custom Benchmark		0.1	-0.7	-0.7	0.6	1.0	2.5	4.9	07/1991
Excess		0.0	0.2	0.2	0.1	0.1	0.4	-0.1	

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 Barclays Intermediate Government 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.



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A RESERVICE

**Quarterly Report** 





# **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.

	<b>Ending Market Value</b>	Last Qtr	<u>1 Year</u>	<u>3 Year</u>	5 Year	10 Year
Treasurer's Cash	13,123,520,630	0.5	1.4	1.0	0.8	1.0
iMoneyNet Money Fund Average-All Taxable		0.4	1.0	0.4	0.3	0.2

# **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	139,680,004	0.6	0.7	2.0	2.1	
Housing Finance	77,117,941	0.8	1.6	1.3	1.5	
Public Facilities Authority	60,825,356	0.2	1.2	1.9	2.2	



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). Prior to that date, it was the MSCI Emerging Markets Free (gross), including from 10/1/01 to 5/31/02 when it was the Provisional MSCI Emerging Markets Free (net).

# **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. Effective 1/1/2017, the Combined Funds Composite weight is set as the Strategic Asset Allocation Policy Target with the uninvested portion of Private Markets allocated to Public Equity. Asset class weights for Public Equity and Private Markets are reset at the start of each month. 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. 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.

# **Domestic Equity Benchmark:**

Russell 3000 effective 10/1/2003. 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 Income Benchmark:**

In 2016, the Barclays Agg was rebranded Bloomberg Barclays Agg to reflect an ownership change. 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.



# Addendum



# **Benchmark Definitions (continued)**

# **Fixed Interest Blended Benchmark:**

On  $\frac{6}{1}2002$ , the benchmark was set as the 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 6/1/08 the International Equity asset class target is 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 (net), and from 7/1/99 to 12/31/00 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).

# **Passive Domestic Equity Benchmark:**

A weighted average of the Russell 1000 and Russell 3000 effective 10/1/2016. 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.

# **Public Equity Benchmark:**

67% Russell 3000 and 33% MSCI ACWI ex USA effective 7/1/2017. 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 its current weighting.

# Semi-Passive Domestic Equity Benchmark:

Russell 1000 index effective 1/1/2004. Prior to 1/1/2004 it was the Completeness Fund benchmark.

