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DATE: February 22, 2022

- TO: The Honorable Tim Walz Minnesota Legislative Reference Library
- FROM: Mansco Perry III Executive Director and Chief Investment Officer

#### SUBJECT: External Money Manager Report Pursuant to Minnesota Statutes Section 11A.04, clause (12)

*Minnesota Statutes*, Section 11A.04, clause (12) requires the State Board of Investment (SBI) to report annually to the Governor and the Legislative Reference Library the cost and investment performance of external investment managers employed by the Board.

As of June 30, 2021, the Defined Benefit Plan assets were invested with 15 domestic equity managers, 15 international equity managers, one currency overlay manager, three global equity managers, and 13 fixed income managers. The private markets uninvested allocation has one cash overlay manager and one equity manager. Some investment managers have multiple mandates across the respective asset class.

The Non-Retirement Program utilized one equity manager, one fixed income manager, and a cash manager. The Assigned Risk Plan utilized a different fixed income manager as it has a different mandate. Lastly, the Stable Value Fund investment option for eligible participants in the Participant Directed Investment Program is managed by one external investment manager.

The fees paid to each of the external money managers that invest a separately managed portfolio is provided on **pages 5-7** of this memo. This information is also included in the SBI's Fiscal Year 2021 Annual Report.

The returns earned from each of the investment managers is provided on **pages 8-11** of this memo. It is important to note that all performance data reported by the SBI is net of fees and transactions costs associated with the various portfolios and funds. A full year of performance will be available in fiscal year 2022 for managers that invest in global equities, fixed income return seeking and laddered bond mandates, and S&P 500 overlay and physical managers in the private markets uninvested allocation.

The SBI's Fiscal Year 2021 Annual Report contains additional detail on manager performance and may be accessed online at <u>http://mn.gov/sbi</u>.

#### **Retirement Program - Defined Benefit Plan**

#### **Domestic Equity Program**

The SBI evaluates domestic equity manager returns against the performance of Russell style indices which reflect the managers' specific investment approaches. The benchmark portfolios take into account the market forces that, at times, favorably or unfavorably impact certain investment styles. Assets are allocated to managers within each of the Russell style indices. The aggregate Domestic Equity Program is designed to outperform its asset class target, the Russell 3000 Index. As a group, the Domestic Equity Program managers outperformed its asset class target by 0.7 percentage point for the 2021 fiscal year. (See **page 8**.)

#### **International Equity Program**

The SBI evaluates individual international equity managers against two market indices published by Morgan Stanley Capital International MSCI: The MSCI World ex USA Index (net) for developed international equity managers and the MSCI Emerging Markets Index (net) for emerging market equity managers. As a group, the International Equity Program outperformed its asset class target, MSCI ACWI ex U.S. Index (net), by 1.2 percentage points for the 2021 fiscal year. (See **page 9**.)

#### **Global Equity Program**

The Global Equity Program was initiated during fiscal year 2021, a full year of performance for the global equity managers will be available fiscal year 2022.

#### **Private Markets Uninvested Allocation**

The Private Markets Uninvested Allocation mandate is the S&P 500. A full year of performance will be available fiscal year 2022.

#### **Core/Core Plus Bond Program**

The Core/Core Plus Bond aggregate is measured against the Bloomberg U.S. Aggregate Bond Index. As a group, the Core/Core Plus Bond managers outperformed its asset class target by 2.3 percentage points for the 2021 fiscal year. (See **page 10**.)

#### **Return Seeking Fixed Income Program**

The Return Seeking Fixed Income Program was funded in November of 2020, a full year of performance for the return seeking fixed income managers will be available fiscal year 2022.

#### **Treasury Portfolio**

The Treasury Protection Portfolio, launched in early 2018, is used exclusively by the Combined Funds and is measured to the Bloomberg Barclays Treasury 5+ Years Index. As a group, the Treasury Program outperformed its benchmark by 0.6 percentage point for the 2021 fiscal year. (See **page 10**.)

#### Laddered Bond + Cash Managers

During fiscal year 2021, the SBI changed the asset allocation targets and reallocated the Cash allocation within the Total Fixed Income allocation. As part of this change, the Laddered Bond mandate was added as a sub asset group in October of 2020. A full year of performance for the laddered bond managers will be available fiscal year 2022. (See **page 10**.)

#### **Non-Retirement Program**

#### **Non-Retirement Equity Fund**

The Non-Retirement Equity Fund is passively managed by Mellon Investments Corporation to the S&P 500 Index. The Fund matched its benchmark for the 2021 fiscal year. (See page 11.)

#### Non-Retirement Bond Fund

The Non-Retirement Bond Fund is actively managed by Prudential Global Investment Management (PGIM) to the Bloomberg U.S. Aggregate Bond Index. For fiscal year 2021, the Fund outperformed its benchmark by 1.5 percentage points. (See **page 11**.)

#### **Non-Retirement Money Market Fund**

The Non-Retirement Money Market Fund is managed by State Street Global Advisors (SSGA) and is measured against the iMoneyNet All Taxable Money Fund Average. For fiscal year 2021, the Fund outperformed its benchmark by 0.1 percentage point. (See **page 11**.)

#### Non-Retirement/Assigned Risk Plan Fixed Income

The Non-Retirement/Assigned Risk Plan Fixed Income Manager, RBC Global Asset Management, benchmark is the Bloomberg Barclays Intermediate Government Index. For fiscal year 2021, the portfolio outperformed its benchmark by 0.3 percentage point. (See page 11.)

#### Participant Directed Investment Program (PDIP)

#### **Stable Value Fund**

The Stable Value Fund is a separately managed fund available to qualified defined contribution plans in the Supplemental Investment Fund (SIF) and in the Mutual Fund platform. This fund is managed by Galliard Capital Management and is measured against the 3-Year Constant Maturity Treasury plus 45 basis points. During fiscal year 2021, the Fund outperformed its benchmark by 1.5 percentage points. (See **page 11**.)

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Investment Manager Name		
Domestic Equity Active Managers		
ArrowMark Colorado Holdings, LLC	\$	1,581,727
Barrow, Hanley, Mewhinney & Strauss, LLC	Ŧ	652,390
Earnest Partners, LLC		150,777
Goldman Sachs Asset Management, L.P.		2,089,108
Hood River Capital Management, LLC		2,242,389
Hotchkis and Wiley Capital Management, LLC		1,571,487
LSV Asset Management		674,706
Martingale Asset Management, L.P.		1,027,687
Peregrine Capital Management		1,629,793
Rice Hall James & Associates, LLC		1,613,533
Sands Capital Management, LLC		1,829,711
Wellington Management Company LLP		1,875,449
Winslow Capital Management, LLC		690,280
Zevenbergen Capital Investments LLC		, 1,618,779
Domestic Equity Semi-Passive Managers		
BlackRock Institutional Trust Company, N.A.		1,474,003
J.P. Morgan Investment Management Inc.		1,566,992
Domestic Equity Passive Manager		
BlackRock Institutional Trust Company, N.A. (Passive R3000)		12,513
BlackRock Institutional Trust Company, N.A. (Passive R2000)		57,847
BlackRock Institutional Trust Company, N.A. (Passive R1000)		910,162
Fixed Income Core/Core Plus Managers		
Columbia Threadneedle Investments		355,558
Dodge & Cox		1,130,892
Pacific Investment Management Company LLC (PIMCO)		595,619
Western Asset Management Company		1,202,907
BlackRock Financial Management, Inc.		676,803
Goldman Sachs Asset Management		857,659
Neuberger Berman Investment Advisers LLC		851,651
Fixed Income Return Seeking Managers		
Ashmore Investment Management Limited		685,432
BlackRock Financial Management, Inc.		1,216,435
Columbia Threadneedle Investments		911,703
KKR Credit Advisors (US) LLC		461,321
Oaktree Capital Management, L.P.		471,992
Payden & Rygel		537,670
Prudential Global Investment Management, Inc. (PGIM)		477,243
Pacific Investment Management Company LLC (PIMCO)		1,469,409
TCW Asset Management Company, LLC		76,222

# Investment Manager Fees – Total Payments for Fiscal Year 2021 (As reported in the SBI 2021 Annual Report)

nvestment Manager Name	
Treasury Portfolio Managers	
BlackRock Financial Management, Inc.	\$ 1,136,3
Goldman Sachs Asset Management	1,224,9
Neuberger Berman Investment Advisers LLC	1,083,6
addered Bond Managers	
Goldman Sachs Asset Management	329,3
Neuberger Berman Investment Advisers LLC	311,8
nternational Equity Active Developed Markets Managers	
AQR Capital Management, LLC	1,308,9
Acadian Asset Management LLC	1,542,4
Columbia Threadneedle Investments	1,367,1
Fidelity Institutional Asset Management LLC	1,357,7
J.P. Morgan Investment Management Inc.	1,319,9
Marathon Asset Management LLP	1,298,1
McKinley Capital Management, LLC	1,062,0
nternational Equity Passive Manager	
State Street Global Advisors (Developed Markets)	690,1
State Street Global Advisors (Emerging Markets)	1,730,0
nternational Equity Active Emerging Markets Managers	
Macquarie Investment Management Advisers	2,383,5
Martin Currie Inc.	2,557,2
Morgan Stanley Investment Management Inc.	3,942,8
Neuberger Berman Investment Advisers LLC	2,945,5
Pzena Investment Management, LLC	2,466,8
The Rock Creek Group, LLC	3,178,3
nternational Equity Active Opportunistic Strategies	
Earnest Partners (ACWI ex-US)	608,6
Earnest Partners LLC (China A Index)	852,3
Record Currency LLC (Currency Management)	3,933,4
Global Equity Managers	
Ariel Investments, LLC	946,8
Baillie Gifford Overseas Limited	858,7
Martin Currie Inc.	606,5
Private MarketsUninvested Allocation	
BlackRock Institutional Trust Company, N.A.	124,4
NISA Investment Advisors, LLC	436,8

# Investment Manager Fees – Total Payments for Fiscal Year 2021 (As reported in the SBI 2021 Annual Report)

Investment Manager Name	
Stable Value Manager	
Galliard Capital Management, Inc. <sup>(1)</sup>	3,434,905
Assigned Risk Plan	
RBC Global Asset Management (U.S.) Inc.	228,581
Non-Retirement	
BNY Mellon Asset Management North America Corporation	111,111
Prudential Global Investment Management, Inc. (PGIM)	1,389,011
State Street Global Advisors	25,100
Total Investment Manager Fees Paid	\$ 82,041,627
(1) Includes Investment Contract fees of \$2,629,715 charged by wrap providers.	

#### **RETIREMENT PROGRAM – DEFINED BENEFIT PLAN**

#### **Domestic Equity Program**

			Annualized	d Returns	;		
	1 Ye	ar	3 Ye	ars	5 Yea	ars	Market
	Actual	Bmk	Actual	Bmk	Actual	Bmk	Value <sup>1</sup>
Manager Strategy <i>(Benchmark)</i>	%	%	%	%	%	%	(In Millions
Active Management							
<b>All Cap Growth</b> (Russell 3000 Growth) <sup>2</sup>							
Zevenbergen Capital	49.2	49.4	38.6	27.1	37.3	24.8	\$422.5
Large Cap Growth (Russell 1000 Growth)							
Sands Capital Management	47.5	42.5	29.6	25.1	29.8	23.7	376.3
Winslow Capital Management	38.5	42.5	23.9	25.1	24.3	23.7	239.2
Large Cap Value (Russell 1000 Value)							
Barrow, Hanley	47.1	43.7	13.1	12.4	12.6	11.9	396.3
LSV Asset Management	55.5	43.7	11.6	12.4	13.4	11.9	413.
Small Cap Growth (Russell 2000 Growth)							
ArrowMark	55.1	51.4	13.6	15.9			222.
Hood River	81.2	51.4	27.1	15.9			278.
Rice Hall James	44.8	51.4	10.7	15.9			227.
Wellington	46.8	51.4	15.6	15.9			311.
Small Cap Value (Russell 2000 Value)							
Goldman Sachs	62.6	73.3	8.8	10.3	11.8	13.6	376.
Hotchkis & Wiley	80.4	73.3	7.7	10.3	12.6	13.6	220.
Martingale Asset Management	67.2	73.3	7.0	10.3	11.2	13.6	223.
Peregrine Capital Management	72.7	73.3	8.5	10.3	13.4	13.6	329.
Semi-Passive Management (Russell 1000)							
BlackRock Institutional	42.5	43.1	19.1	19.2	18.9	18.0	1,625.
J.P. Morgan Investment Management	44.0	43.1	19.6	19.2	18.3	18.0	1,597.
Passive Management							
All Cap (Russell 3000)							
BlackRock Institutional	44.7	44.2	19.0	18.7	18.0	17.9	1,059.
Large Cap (Russell 1000)							
BlackRock Institutional	43.1	43.1	19.2	19.2			21,826.
Small Cap (Russell 2000)							
BlackRock Institutional	63.4	62.0					102.
otal Domestic Equity Program <sup>3</sup>	45.3	44.6	18.7	18.6	18.2	17.8	\$30,249.
Market values include Supplemental Investment Fund (S	IF) assets.						
As of 1/1/2021 Zevenbergen's benchmark is the Russell	3000 Growth I	ndex, prior	to that it was	s the Russe	ll 1000 Grow	th.	
As of 12/1/2020 the Domestic Equity Program benchmar Russell 2000; from 10/1/2003 - 12/31/2018 it was the F terminated managers.	k is the Russel	3000; fror	m 1/1/2019-1	1/30/2020	0 it was 90%	Russell 10	

### International Equity Program

	Annualized Returns							
	1 Year 3 Years			ars	5 Years		Market	
	Actual	Bmk	Actual	Bmk	Actual	Bmk	Value <sup>1</sup>	
Manager Strategy (Benchmark)	%	% %	%	%	%	%	(In Million	
Developed Markets (MSCI World ex U.S. net)								
Active Management								
Acadian Asset Management	37.5	33.6	8.8	8.6	13.6	10.4	\$396.7	
Columbia Mgmt. Investment Advisers	37.4	33.6	11.8	8.6	13.4	10.4	411.8	
Fidelity Institutional Asset Management	35.9	33.6	11.6	8.6	12.5	10.4	410.3	
J.P. Morgan Investment Management	33.7	33.6	10.8	8.6	12.9	10.4	360.4	
Marathon Asset Management	40.1	33.6	9.0	8.6	10.7	10.4	388.6	
McKinley Capital Management	30.8	33.6	9.2	8.6	11.5	10.4	291.5	
AQR Capital Management	34.1	33.6	6.6	8.6	8.9	10.4	379.1	
Passive Management								
State Street Global Advisers	34.2	33.6	9.0	8.6	10.8	10.4	6,900.4	
merging Markets (MSCI Emerging Markets net)								
Active Management								
Macquarie Investment Management Advisers	41.1	40.9	14.7	11.3			487.6	
Martin Currie	47.8	40.9	15.0	11.3			534.1	
Morgan Stanley Investments Management	42.2	40.9	11.5	11.3	11.7	13.0	590.2	
Neuberger Berman Investment Advisers	33.0	40.9	8.6	11.3			448.8	
Pzena Investment Management	55.7	40.9	10.6	11.3			391.7	
Rock Creek	41.9	40.9	12.4	11.3			483.6	
Passive Management								
State Street Global Advisers	40.2	40.9	11.2	11.3	12.9	13.0	1,144.1	
Opportunistic Investment Strategies (benchmark)								
Active Management								
Earnest Partners (MSCI ACWI ex U.S. net)							399.1	
Earnest Partners (China A Index)							207.3	
Record Currency Management							6.9	
Total International Equity Program <sup>2</sup>	36.8	35.6	9.8	9.3	11.3	11.1	\$14,232.3	
<sup>1</sup> Market Value includes assets of the SIF Broad International Equite	y Fund.							

#### Core/Core Plus Bond Program

Annualized Returns									
	1 Y	1 Year 3 Years 5 Years		ars	Market				
	Actual	Bmk	Actual	Bmk	Actual	Bmk	Value <sup>1</sup>		
Manager Strategy	%	%	%	%	%	%	(In Millions)		
Core Bond									
Dodge & Cox	3.0	-0.3	6.4	5.3	4.4	3.0	\$1,064.8		
BlackRock Financial Management	0.2	-0.3	5.8	5.3	3.3	3.0	944.3		
Core Plus Bond									
Goldman Sachs Asset Management	0.4	-0.3	5.9	5.3	3.5	3.0	898.2		
Neuberger Investment Management	2.0	-0.3	6.5	5.3	3.7	3.0	989.2		
Western Asset Management	3.5	-0.3	7.3	5.3	4.9	3.0	1,139.7		
Total Core/Core Plus Bond Program <sup>2</sup>	2.0	-0.3	6.4	5.3	4.0	3.0	\$5,036.3		
<sup>1</sup> Market value includes assets of SIF Funds.									

#### **Treasury Portfolio**

Treasury Portfolio Manager Perf	ormance a	and Mark	et Value a	as of June	2 30, 2021
		turn (%)		turn (%)	Market Value
Manager	Actual	Bmk <sup>1</sup>	Actual	Bmk <sup>1</sup>	(In Millions)
Active Management					
BlackRock Financial Mgmt.	-6.6	-6.7	6.4	6.5	\$2,761.3
Goldman Sachs Asset Mgmt.	-6.2	-6.7	6.5	6.5	2,952.5
Neuberger Investment Mgmt.	-5.8	-6.7	6.6	6.5	2,973.5
Total Treasury Portfolio	-6.1	-6.7	6.5	6.5	\$8,687.3
<sup>1</sup> Treasury Portfolio benchmark is the Blo	oomberg Ba	rclay 5+ Yea	ır U.S. Treas	ury Index.	

#### **Cash Managers**

	1 Yr. Re	eturn %	3 Yr. Re	eturn %	Market Value
Manager Strategy	Actual	Bmk	Actual	Bmk	(In Millions)
Cash <sup>2</sup>					
State Street Global Advisors	0.1	0.0	1.3	1.0	1,390.4
CD Repo <sup>1</sup>					
SBI Internal Portfolio	0.2	0.1	1.5	1.2	28.8
Total Cash <sup>1</sup>	0.2	0.1	1.3	1.3	\$1,419.2
<sup>1</sup> Benchmark is the ICE BofA 3 Mo. T-Bill					

#### NON-RETIREMENT PROGRAM

### Non-Retirement Program Manager Performance and Market Value as of June 30, 2021

	1 Year R	eturn (%)	3 Year R	eturn (%)	Value
Manager	Actual	<b>Bmk</b> <sup>1</sup>	Actual	<b>Bmk</b> <sup>1</sup>	(In Millions)
Non-Retirement Equity Fund Manager					
Mellon Investments	40.8	40.8	18.7	18.7	\$3,236.4
Non-Retirement Bond Fund Manager					
Prudential	1.2	-0.3	5.9	5.3	1,564.
Non-Retirement Money Market Fund Manager					
State Street Global Advisors	0.1	0.0	1.3	1.0	97.
Assigned Risk Plan Fixed Income Manager					
RBC	-0.8	-1.1	4.1	3.9	240.
Other Portfolio					
Met Council Ladder Fixed Income Portfolio	0.4	NA	3.0	NA	111.3
Total Non-Retirement Program					\$5,250.0

• The Non-Retirement Money Market Fund benchmark is the iMoneyNet All Taxable Money Fund Average

• The Non-Retirement Assigned Risk Plan benchmark is the Bloomberg Intermediate Government Index

#### PARTICIPANT DIRECTED INVESTMENT PROGRAM

#### **Stable Value Fund**

Stable Value Manager Performance and Market Value as of June 30, 2021									
	1 Year R	eturn (%)	3 Year R	eturn (%)	Market Value				
Manager	Actual	<b>Bmk</b> <sup>1</sup>	Actual <sup>1</sup>	<b>Bmk</b> <sup>1</sup>	(In Millions)				
Stable Value Fund Manager									
Galliard Capital Management	2.2	0.7	2.5	1.8	\$1,704.2				
Total Stable Value Fund	2.2	0.7	2.5	1.8	\$1,704.2				
<sup>1</sup> The Stable Value Fund benchmark is th	e 3-Year Con	stant Maturit	y Treasury plu	us 45 basis p	point.				