

**AGENDA**  
**INVESTMENT ADVISORY COUNCIL MEETING**  
**Tuesday, May 19, 2015**  
**12:00 Noon**  
**State Board of Investment**  
**Retirement Systems Building**  
**Room 117 – Main Floor**  
**60 Empire Drive, St. Paul, MN**

- |  |            |
|--|------------|
|  | <b>TAB</b> |
| <b>1. Approval of Minutes of February 17, 2015</b>   |            |
| <b>2. Report from the Executive Director</b>   | <b>A</b>   |
| A. Quarterly Investment Review<br>(January 1, 2015 – March 31, 2015)                           |            |
| B. Administrative Report   | <b>B</b>   |
| 1. Reports on Budget and Travel  |            |
| 2. Legislative Update  |            |
| 3. Sudan Update  |            |
| 4. Iran Update   |            |
| 5. Litigation Update   |            |
| <b>3. Report from the SBI Administrative Committee</b>   | <b>C</b>   |
| A. Review of Executive Director's Proposed Workplan FY16                                       |            |
| B. Review of Budget Plan for FY16 and FY17   |            |
| C. Review of Continuing Fiduciary Education Plan   |            |
| D. International Equity Manager Country Guidelines and Process                                 |            |
| E. Review of Executive Director's Evaluation   |            |
| F. Update of Business Continuity Plan  |            |
| <b>4. Private Markets Report</b>   | <b>D</b>   |
| A. Review of current strategy  |            |
| B. Consideration of investment commitments with three existing<br>managers and one new manager |            |
| <b>5. Public Markets, Non-Retirement, and Defined Contribution Report</b>                      | <b>E</b>   |
| <b>6. Presentation and Discussion – Liquid Real Assets</b>                                     | <b>F</b>   |
| <b>7. Other items</b>  |            |

**INVESTMENT ADVISORY COUNCIL**

**MINUTES**

**May 19, 2015**

**Minutes  
Investment Advisory Council  
February 17, 2015**

The Investment Advisory Council (IAC) met at 12:00 P.M. Tuesday, February 17, 2015 in Room 117, Retirement Systems Building, 60 Empire Drive, St. Paul, Minnesota.

**MEMBERS PRESENT:** Jeff Bailey, Dave Bergstrom, John Bohan, Kerry Brick, Dennis Duerst, Dave DeJonge, Kim Faust, Doug Gorence, Laurie Hacking, Kristin Hanson (for Myron Frans), Jay Kiedrowski, Gary Martin, Malcolm McDonald and Elaine Voss.

**MEMBERS ABSENT:** Denise Anderson.

**SBI STAFF:** Mansco Perry, LeaAnn Stagg, Patricia Ammann, Paul Anderson, Cassandra Boll, Nate Blumenshine, Tammy Brusehaver, Stephanie Gleeson, Inma Conde Goldman, Aaron Griga, Ryan Hill, Andrew Krech, Steve Kuettel, Mike Menssen, Mercy Ndungu, Iryna Shafir, Jonathan Stacy, Robert Weiler, Charlene Olson, and Melissa Mader.

**OTHERS ATTENDING:** Ann Posey and Rod Bare, Callan Associates Inc.; Bert Black, Celeste Grant, Christie Eller, and Emily Johnson Piper; Jay Stoffel, Teachers Retirement Association; and Edgar Hernandez, SEIU.

The minutes of the November 18, 2014 meeting were approved.

**Executive Director's Report**

Mr. Perry referred members to Tab A of the meeting materials, and he reported that the Combined Funds had outperformed its Composite Index over the ten year period ending December 31, 2014 (Combined Funds 7.8% vs. Composite 7.5%) and had provided a real rate of return of 6.7% above inflation over the latest 20 year period (Combined Funds 9.0% vs. CPI 2.3%).

Mr. Perry said that assets increased over the quarter by 1.8% (Combined Funds ending value of \$60.0 versus a beginning value of \$58.9 billion), due to investment returns outweighing net outflows. He said that the asset allocation, which was slightly overweight domestic stocks and slightly underweight international stocks, was rebalanced back to target in January. The Combined Funds return was twenty basis points (bps) above the benchmark for the quarter (Combined Funds 2.5% vs. Composite 2.3%), but twenty bps below the benchmark for the year (Combined Funds 8.6% vs. Composite 8.8%). The Combined Funds outperformed for longer time periods.

Mr. Perry reported that the domestic stock manager group performed in-line with its target for the quarter (Domestic Equities 5.2% vs. Domestic Equity Asset Class Target 5.2%), slightly underperformed for the year (Domestic Equities 12.3% vs. Domestic Equity Asset Class Target 12.6%), and outperformed in longer time periods. He said the international stock manager group outperformed its target for the quarter (International Equities -3.3% vs. International Equity Asset Class Target -3.9%), underperformed for the year (International Equities -4.0% vs. International Equity Asset Class Target -3.9%), but outperformed over longer time periods. Mr. Perry stated that the bond

segment slightly underperformed for the quarter (Fixed Income 1.7% vs. Fixed Income Asset Class Target 1.8%) and outperformed its target in all other time periods. He stated that the alternative investments continue to be a strong contributor to performance (1.1% for the quarter and 18.0% for the year). He concluded his report noting that, as of December 31, 2014, the SBI was responsible for managing more than \$80 billion of assets.

Mr. Perry referred members to Tab B of the meeting materials for the administrative report. He reported that fiscal year to date, the SBI was running below budget. Next, he stated that the legislative auditor would issue a letter noting that there were no findings in the audit. Board and IAC members will receive a copy of the audit letter when it becomes available. He then noted that approximately 97% of the Duluth Teachers' Retirement Fund assets had been transferred to the SBI. He expected the remaining assets to be transferred by the end of the fiscal year.

Mr. Perry requested Council support Staff and the Minnesota State Retirement System (MSRS) regarding the addition of target date funds to the Unclassified Plan lineup. Mr. Bergstrom moved approval of the recommendation and Ms. Voss seconded the motion. The motion passed.

Mr. Perry discussed the next action item, which related to the Metropolitan Council's (Met Council) Other Postemployment Benefits (OPEB) plans. The Met Council requested that the SBI manage a customized fixed income portfolio which would more directly match their liabilities with their assets. Met Council would continue to maintain the ability to set their asset allocation. After a brief discussion, Ms. Hacking moved approval of the recommendation and Mr. DeJonge seconded the motion. The motion passed.

Mr. Perry stated that Sudan and Iran holdings updates were provided. Next, Mr. Perry stated there was currently no litigation involving the SBI.

Mr. Perry introduced the newest members of the SBI investment staff: Inma Conde Goldman, Mercy Ndungu, Jonathan Stacy, Robert Weiler, and Nate Blumenshine. He also introduced the newest member of the accounting team: Iryna Shafir. Continuing the theme, Mr. Bergstrom introduced Dave DeJonge, who is the Interim Director at Public Employees Retirement Association (PERA).

Mr. Perry introduced the directors of the retirement plans. Mr. Bergstrom began the retirement plans' presentation by discussing the funded status history of MSRS. As of June 30, 2014, the MSRS General Plan had a funded status of 92.4% based on market value, the Correctional Plan was 78% based on market value, and the State Patrol Plan was back up to 83.4% based on market value. Mr. DeJonge described a few of the plans and funded status overseen by PERA. They administer seven plans, which includes the Minneapolis Employees Retirement Fund (MERF), which was officially merged into the PERA General Plan in January. He noted that the General Plan had improved to 82% funded, the Correctional Plan was 106% funded, and the Police and Fire Plan had improved to 89% funded, all based on market value. Ms. Hacking stated that Teachers Retirement Association (TRA) was 83% funded on a market value basis and also explained the benefit changes that reduced liabilities by \$6 billion.

Mr. Bergstrom followed by discussing a couple of legislative initiatives. The first is legislation regarding a self-correcting cost-of-living adjustment (COLA). Currently, the COLA does not self-correct when the funded status decreases. MSRS would like to reduce the COLA to 2%, without having to seek legislation, if the funded status fell below 85% for two years, or if it fell below 80% for

one year. Second, MSRS and PERA would like to reduce the investment return assumption from 8.5% to 8%.

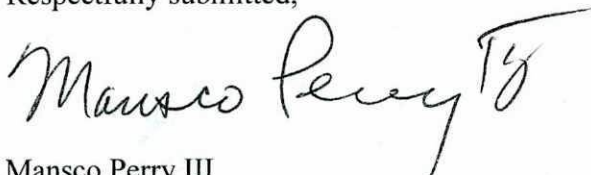
Mr. Perry proceeded to a discussion about the Alternatives portfolio. First, he addressed the composition of the portfolio. He pointed out that the SBI is attempting to increase diversification, both in terms of investments and General Partners ("GPs"). He mentioned that "core type" managers (GPs with whom the SBI has a long-standing relationship) will typically receive larger allocations and managers new to the SBI's Alternatives portfolio will receive a smaller allocation. Next, he stated that given the current unallocated capital balance, combined with distributions received from General Partners, mean that the SBI needs to allocate roughly \$2.5 billion to GPs each year. Following that, Mr. Perry called attention to Schedule A and the additional data being provided. Next, he discussed the thought process regarding the pacing of alternative asset investments given the unallocated capital balance, target allocations, and distributions received from GPs. He then asked council members to ponder whether the SBI should maintain a short list of pre-approved GPs. The SBI has been prevented from participating in deals in the past because GPs occasionally conduct short fund raising windows that have fallen between IAC meetings. After a brief discussion, Mr. Perry noted that staff will produce a memo at the May or August IAC meeting about pre-approving a roster of managers. Lastly, Mr. Perry introduced the idea of increasing geographic diversification within the Alternatives portfolio.

Mr. Krech and Mr. Hill, members of the SBI Alternative Investment team, were introduced to discuss the six alternative investment recommendations. Before they began, given the price decline for a barrel of oil, Mr. Krech answered questions related to the SBI's Resource managers. Mr. Hill and Mr. Krech then described each of the six recommendations in detail to IAC members and answered questions. The six deals were Blackstone (Real Estate); EnCap Investments (Resource); Oaktree Capital Management (Yield Oriented); Kohlberg Kravis Roberts (Yield Oriented); Avenue Capital Group (Yield Oriented); and MHR Fund Management (Private Equity). A brief discussion followed regarding the sizing of certain allocations. Mr. McDonald moved approval of all six alternative investment recommendations and Mr. Bohan seconded the motion. The motion passed.

Mr. Perry referred members to Tab D where he discussed the streamlined performance sections and Pacific Investment Management Company (PIMCO). The individual VAM pages were replaced with a quarterly economic commentary, noteworthy investment manager comments, and performance data. Regarding PIMCO, Mr. Perry stated that the SBI is retaining them as a fixed income manager. A brief discussion followed regarding the changes made to the book, with Mr. Perry noting the goal is to increase the focus on policy.

The meeting adjourned at 2:45 p.m.

Respectfully submitted,



Mansco Perry III  
Executive Director and  
Chief Investment Officer

TAB

A

## LONG TERM OBJECTIVES

Period Ending 3/31/15

<b>COMBINED FUNDS: \$60.4 Billion</b>	<b>Result</b>	<b>Compared to Objective (2)</b>
---------------------------------------	---------------	----------------------------------

**Match or Exceed Composite Index (10 Yr.)**

8.0% (1)

0.3 percentage point above the target

Outperform a composite market index weighted in a manner that reflects the long-term asset allocation of the Combined Funds over the latest 10 year period.

**Provide Real Return (20 Yr.)**

8.8%

6.5 percentage point above CPI

Provide returns that are 3-5 percentage points greater than inflation over the latest 20 year period.

(1) Performance is calculated net of fees.

(2) Differential from composite may occur due to rounding.

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## EXECUTIVE SUMMARY

### Combined Funds (Net of Fees)

#### Asset Growth

The market value of the Combined Funds increased 0.8% during the first quarter of 2015 as positive investment return in public equities and fixed income offset negative net contributions.

#### Asset Growth During First Quarter 2015 (Millions)

Beginning Value	\$59,966
Net Contributions	-468
Investment Return	934
Ending Value	\$60,432

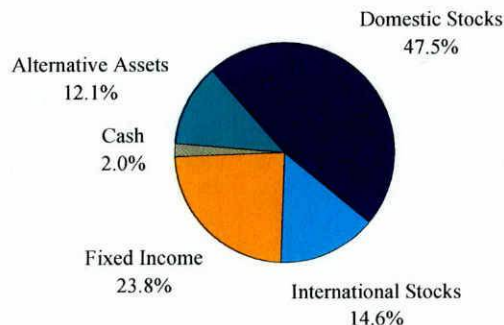
#### Combined Funds Market Value



#### Asset Mix

The allocation to cash increased due to a rebalance from domestic equities and there was a slight decrease in the alternatives allocation.

	Policy Targets	Actual Mix 3/31/15	Actual Market Value (Millions)
Domestic Stocks	45.0%	47.5%	\$28,680
International Stocks	15.0%	14.6%	8,846
Bonds	18.0%	23.8%	14,385
Alternative Assets*	20.0%	12.1%	7,335
Cash	2.0%	2.0%	1,186
	100.0%	100.0%	\$60,432

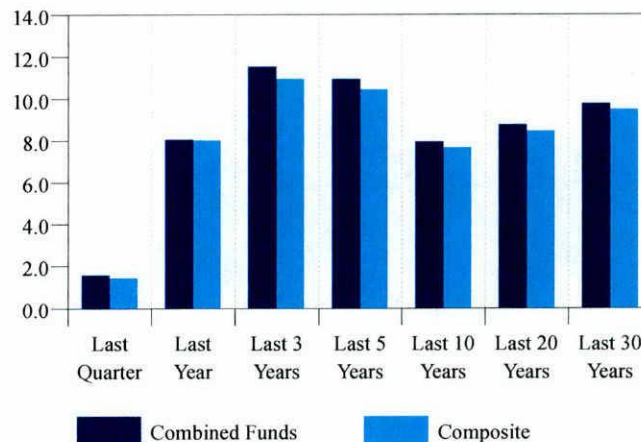


\* Any uninvested allocation is held in bonds.

#### Fund Performance (Net of Fees)

The Combined Funds outperformed its benchmark for the quarter and for the year.

	Periods Ended 3/31/15						
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years	Last 20 Years	Last 30 Years
<b>Combined Funds</b>	1.6%	8.1%	11.5%	11.0%	8.0%	8.8%	9.8%
Composite	1.4%	8.0%	10.9%	10.4%	7.7%	8.5%	9.5%



Note: All periods over one year are annualized.

Column sums throughout this report may not add due to rounding.

## EXECUTIVE SUMMARY

### Stock and Bond Manager Performance (Net of Fees)

#### Domestic Stocks

The domestic stock manager group (active, semi-passive and passive combined) outperformed its target for the quarter and matched the return for the year.

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

	Periods Ended 3/31/15				
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Dom. Stocks</b>	2.2%	12.4%	16.8%	14.9%	8.3%
Asset Class Target*	1.8%	12.4%	16.4%	14.7%	8.4%

\* The Domestic Equity Asset Class Target is the Russell 3000 effective 10/1/03. From 7/1/99 to 9/30/03, it was the Wilshire 5000 Investable Index.

#### International Stocks

The international stock manager group (active, semi-passive and passive combined) outperformed its target for the quarter and for the year.

**MSCI ACWI Free ex USA (net):** The Morgan Stanley Capital International All Country World Index is a free float-adjusted market capitalization index that is designed to measure equity market performance in the global developed and emerging markets. There are 45 countries included in this index. It does not include the United States.

	Periods Ended 3/31/15				
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Int'l Stocks</b>	3.8%	-0.6%	7.4%	5.5%	5.9%
Asset Class Target*	3.5%	-1.0%	6.4%	4.8%	5.5%

\* Since 6/1/08 the International Equity Asset Class Target is the Standard MSCI ACWI ex U.S. (net). From 10/1/07 to 5/31/08 the benchmark was the Provisional Standard MSCI ACWI ex USA (net). From 10/1/03 to 9/30/07 the target was MSCI ACWI ex USA (net).

#### Bonds

The bond manager group (active and semi-passive combined) outperformed its target for the quarter and for the year.

**Barclays Aggregate:** The Barclays Aggregate Bond 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.

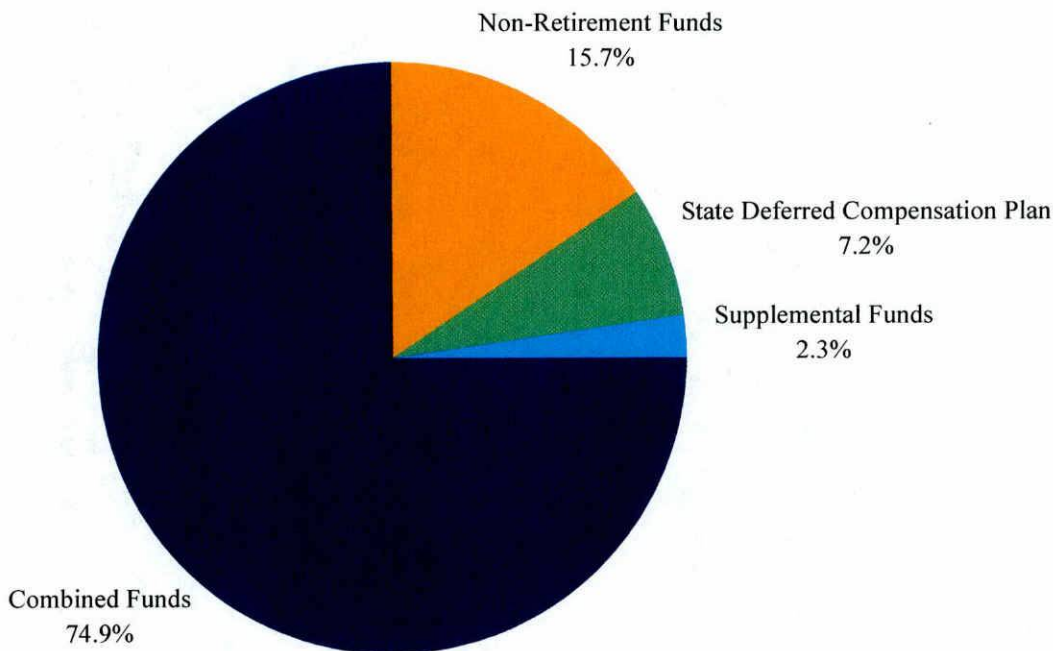
	Periods Ended 3/31/15				
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Bonds</b>	1.7%	5.9%	3.9%	5.3%	5.3%
Asset Class Target	1.6%	5.7%	3.1%	4.4%	4.9%

#### Alternative Investments

	Periods Ended 3/31/15				
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Alternatives</b>	-3.0%	8.8%	13.0%	13.2%	13.6%

Note: All periods over one year are annualized.

**EXECUTIVE SUMMARY**  
**Funds Under Management**



**3/31/15**  
**Market Value**  
**(Billions)**

**Retirement Funds**

Combined Funds	\$60.4
Supplemental Investment Fund	1.9
(Excluding Deferred Compensation Plan Assets)	
State Deferred Compensation Plan	5.8

**Non-Retirement Funds**

Assigned Risk Plan	0.3
Permanent School Fund	1.2
Environmental Trust Fund	0.9
Closed Landfill Investment Fund	0.1
Miscellaneous Trust Accounts	0.1
Other Post Employment Benefits Accounts	0.5
State Cash Accounts	8.4
<u>Minnesota College Savings Plan</u>	<u>1.2</u>

<b>Total</b>	<b>\$80.7</b>
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Note: Amounts and percentages may not add due to rounding.

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# MINNESOTA STATE BOARD OF INVESTMENT

## QUARTERLY INVESTMENT REPORT

First Quarter 2015  
(January 1, 2015 - March 31, 2015)

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## VARIOUS CAPITAL MARKET INDICES

Periods Ended March 31, 2015

	<u>Last Quarter</u>	<u>Last Year</u>	<u>Last 3 Years</u>	<u>Last 5 Years</u>	<u>Last 10 Years</u>
<b>Domestic Equity</b>					
Russell 3000 (broad market)	1.8%	12.4%	16.4%	14.7%	8.4%
Russell 1000 (large cap)	1.6	12.7	16.4	14.7	8.3
Russell 2000 (small cap)	4.3	8.2	16.3	14.6	8.8
Dow Jones Wilshire Composite	1.8	12.2	16.4	14.7	8.5
Dow Jones Industrials	0.3	10.6	13.2	13.2	8.2
S&P 500	1.0	12.7	16.1	14.5	8.0
<b>Domestic Fixed Income</b>					
Barclays Aggregate (1)	1.6	5.7	3.1	4.4	4.9
Barclays Gov't/Credit	1.8	5.9	3.4	4.8	5.0
3 month U.S. Treasury Bills	0.0	0.0	0.1	0.1	1.5
<b>International</b>					
MSCI Emerging Markets Free Index (2)	2.2	0.4	0.3	1.7	8.5
MSCI ACWI ex USA (3)	3.5	-1.0	6.4	4.8	5.5
MSCI EAFE (4)	4.9	-0.9	9.0	6.2	4.9
MSCI World ex USA (5)	3.8	-1.4	8.2	5.7	5.0
Salomon Non U.S. Gov't Bond	-4.4	-9.8	-3.3	0.4	2.5
<b>Inflation Measure</b>					
Consumer Price Index CPI-U (6)	0.6%	-0.1%	1.0%	1.6%	2.0%
Consumer Price Index CPI-W (7)	0.5%	-0.6%	0.7%	1.6%	2.1%

(1) Barclays Capital Aggregate Bond index. Includes governments, corporates and mortgages.

(2) Morgan Stanley Capital International Emerging Markets Free Index (Net index).

(3) Morgan Stanley Capital International All Country World Index ex USA (Net index).

(4) Morgan Stanley Capital International Index of Europe, Australasia and the Far East (EAFE) (Net index).

(5) Morgan Stanley Capital International World ex USA Index (Developed Markets) (Net index).

(6) Consumer Price Index (CPI) for all urban consumers, also known as CPI-U.

(7) Consumer Price Index (CPI) for all wage earners, also known as CPI-W.

Note: All periods over one year are annualized.

## FINANCIAL MARKETS REVIEW

### DOMESTIC STOCKS

The U.S. stock market, as measured by the Russell 3000 index, posted a 1.8% return for the first quarter of 2015. The U.S. economy continued to push forward with some deceleration. A prolonged winter with record and near record levels of cold and snow impacted everything from retail sales to housing starts. Job growth slowed and oil prices continued to decline during the quarter. Within the Russell 3000, Health Care was the best performing sector with a 7.8% return while Energy and Utilities were the weakest sectors with -2.2% return for the quarter. Growth stocks outperformed value stocks during the quarter.

Performance for the Russell Style Indices for the quarter is shown below:

Large Growth	Russell 1000 Growth	3.8%
Large Value	Russell 1000 Value	-0.7%
Small Growth	Russell 2000 Growth	6.6%
Small Value	Russell 2000 Value	2.0%

The Russell 3000 index returned 12.4% for the year ending March 31, 2015.

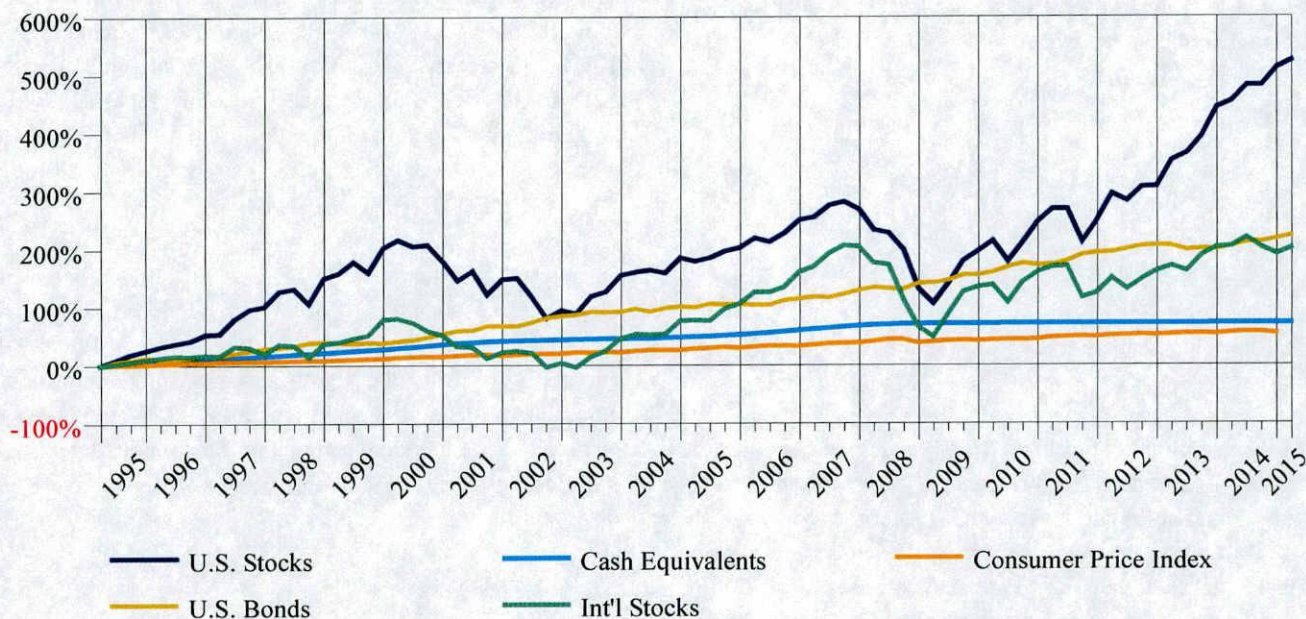
### DOMESTIC BONDS

The U.S. bond market, as measured by the Barclays Capital U.S. Aggregate Bond Index, produced a total return of 1.6% for the quarter. The 2-year U.S. Treasury yield ended the quarter lower by 11 basis points at 0.5%, the 5-year decreased by 20 basis points to 1.4%, the 10-year decreased by 18 basis points to 1.9%, and the 30-year decreased by 14 basis points to 2.5%. Corporate bonds were the biggest driver of return followed by CMBS.

The major sector returns for the Barclays Capital U.S. Aggregate Bond Index for the quarter were:

U.S. Treasury	1.6%
Agency	1.2%
Corporates	2.3%
Agency MBS	1.1%
Commercial Mortgages	1.8%
Asset-Backed	0.9%

### PERFORMANCE OF CAPITAL MARKETS Cumulative Returns



## FINANCIAL MARKETS REVIEW

### DEVELOPED INTERNATIONAL MARKETS

In aggregate, developed international stock markets (as measured by MSCI World ex USA index) provided a return of 3.8% for the quarter. World equities posted robust positive returns in local currencies. However, given the strong U.S. dollar, returns in U.S. dollar terms were smaller. Overall global economic growth was modest but equity markets benefited from falling oil prices and monetary policy easing outside of the U.S. The top performing sectors for the quarter were Health Care, Consumer Discretionary and Information Technology. The two worst performing sectors were Energy and Utilities. The quarterly performance of the six largest stock markets, which comprise about 73% of the World ex U.S. index, is shown below:

Japan	10.2%
United Kingdom	-1.0%
France	4.7%
Germany	8.3%
Canada	-6.0%
Switzerland	4.7%

### EMERGING INTERNATIONAL MARKETS

Emerging markets (as measured by MSCI Emerging Markets Free index net) provided a return of 2.2% for the quarter. The quarterly performance of the six largest stock markets in the index is shown below:

China	8.1%
Korea	4.3%
Taiwan	4.0%
Brazil	-14.6%
South Africa	3.2%
India	5.4%

The Emerging Markets Free index returned 0.4% during the last year.

The Emerging Markets Free (EMF) index is compiled by MSCI and measures performance of 23 stock markets in Latin America, Asia, Africa and Eastern Europe. EMF includes only those securities foreign investors are allowed to hold. The markets listed above comprise about 73% of the value of the emerging international markets in the index.

### REAL ESTATE

During the first quarter of 2015, private real estate posted its 21st consecutive quarter of positive returns with the NCREIF Property Index posting a return of 3.6%. Real Estate markets have seen a healthy recovery since the 2008-2009 crash. An aggregate \$29 billion in private real estate funds was raised in 1Q 2015, which includes a record \$14.5bn raised by Blackstone Real Estate Partners. BREP VII became the largest private real estate fund to ever close. (Source: NCREIF; Preqin)

### PRIVATE EQUITY

During the first quarter of 2015, an aggregate \$104 billion in private equity funds was raised across 166 funds. Two-thirds of the capital raised in the quarter is attributable to 20 funds. Limited Partners, as surveyed by Preqin, continue to be bullish on the asset class. This is evidenced by the recent successful fundraises by General Partners and the record level of dry powder, \$1.24 trillion, ready to be deployed. (Source: Preqin)

Buyout activity in 1Q 2015, as measured by deal activity, decreased to 770 compared to the 958 deals in 4Q 2014. This marks the seventh consecutive year where deal activity has decreased from the fourth quarter to the first quarter. The aggregate value of deals increased (\$97 billion vs. \$85 billion), buoyed by the \$40 billion Kraft-Heinz merger. The number of private-equity backed exits declined in 1Q 2015 to 353, but the aggregate value of exits increased to \$100 billion. (Source: Preqin)

### RESOURCE FUNDS

During the first quarter of 2015, crude oil traded between a range of \$43/bbl and \$54/bbl. The average price for the first quarter of 2015 was \$49/bbl, which was \$24 below the average price from the fourth quarter. Increased supply, particularly in Saudi Arabia and the U.S., combined with weak global demand contributed to the continued decline in oil prices. (Source: Bloomberg, BlackRock)



### COMBINED FUNDS

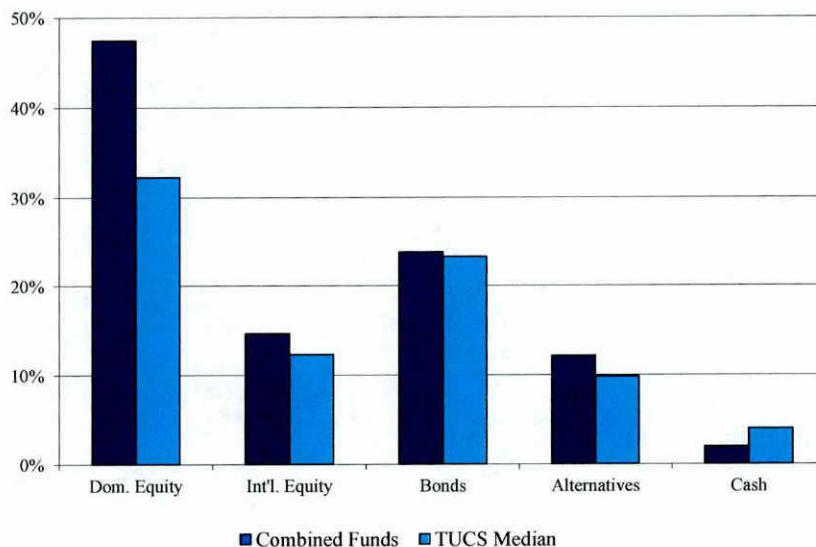
The comparison universe used by the SBI is the Trust Universe Comparison Service (TUCS). Only funds with assets over \$1 billion are included in the comparisons shown in this section.

#### Asset Mix Compared to Other Pension Funds

On 3/31/15, the asset mix of the Combined Funds was:

	\$ Million	%
Domestic Stocks	\$28,680	47.5%
International Stocks	8,846	14.6%
Bonds	14,385	23.8%
Alternative Assets	7,335	12.1%
Unallocated Cash	1,186	2.0%
<b>Total</b>	<b>\$60,432</b>	<b>100.0%</b>

Comparisons of the Combined Funds' asset mix to the median allocation to stocks, bonds and other assets of the public and corporate funds in TUCS over \$1 billion are shown below:



	<u>Domestic</u> <u>Equity</u>	<u>Int'l</u> <u>Equity</u>	<u>Bonds</u>	<u>Alternatives</u>	<u>Cash</u>
<b>Combined Funds</b>	47.5%	14.6%	23.8%	12.1%	2.0%
Median Allocation in TUCS*	32.3%	12.3%	23.3%	9.8%**	4.0%

\* Public and corporate plans over \$1 billion.

\*\* May include assets other than alternatives.

### COMBINED FUNDS

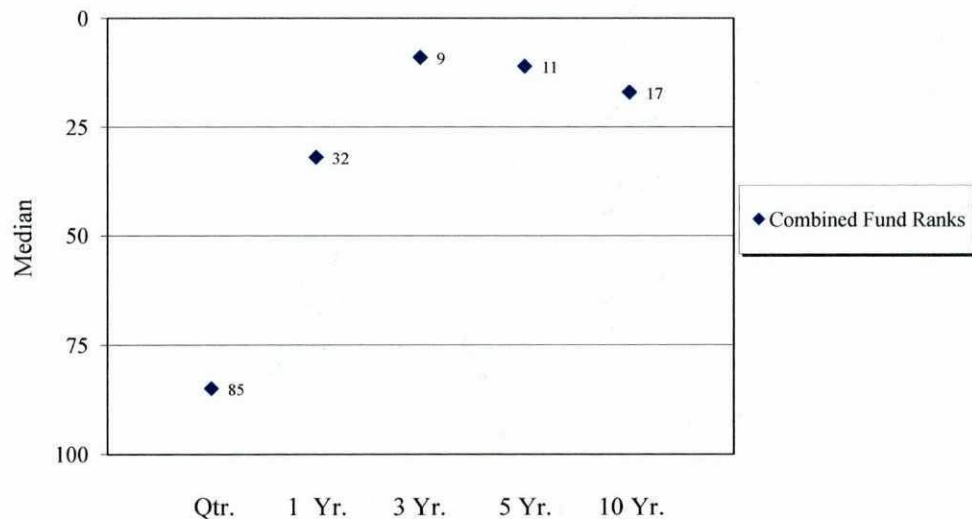
#### Performance Compared to Other Pension Funds

While the SBI is concerned with how its returns compare to other pension investors, universe comparisons should be used with great care. There are several reasons why such comparisons will provide an "apples to oranges" look at performance:

- **Differing Allocations.** Asset allocation will have a dominant effect on return. The allocation to stocks among the funds in TUCS typically ranges from 20-90%, a very wide range for meaningful comparison. In addition, it appears that many funds do not include alternative asset holdings in their reports to TUCS. This further distorts comparisons among funds.
- **Differing Goals/Liabilities.** Each pension fund structures its portfolio to meet its own liabilities and risk tolerance. This will result in different choices on asset mix. Since asset mix will largely determine investment results, a universe ranking is not relevant to a discussion of how well a plan sponsor is meeting its long-term liabilities.

With these considerations in mind, the performance of the Combined Funds compared to other public and corporate pension funds in Trust Universe Comparison Service (TUCS) are shown below.

The SBI's returns are ranked against public and corporate plans with over \$1 billion in assets. All funds in TUCS report their returns gross of fees.



Periods Ended 3/31/15

	Quarter	1 Year	3 Years	5 Years	10 Years
Combined Funds					
Percentile Rank in TUCS*	85th	32nd	9th	11th	17th

\* Compared to public and corporate plans greater than \$1 billion, gross of fees.

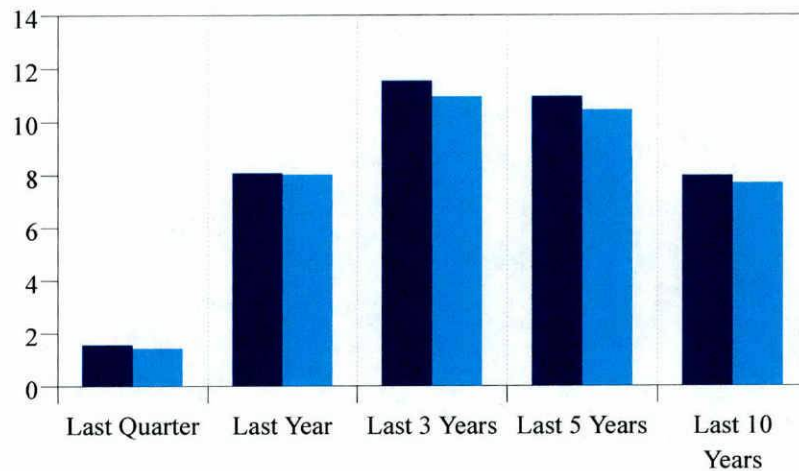
Note: All periods over one year are annualized.

**COMBINED FUNDS**  
**Performance Compared to Composite Index**

The Combined Funds' performance is evaluated relative to a composite of market indices. The composite is weighted in a manner that reflects the asset allocation of the Combined Funds:

	<b>Market Index</b>	<b>Combined Funds Composite 1Q/15</b>
Domestic Stocks	Russell 3000	45.0%
Int'l Stocks	MSCI ACWI Free ex USA	15.0%
Bonds	Barclays Capital Aggregate	25.3%*
Alternative Investments	Alternative Investments	12.7%*
Unallocated Cash	3 Month T-Bills	2.0%
		100.0%

\* Alternative asset and fixed income weights are reset in the composite at the start of each month to reflect the amount of unfunded commitments in alternative asset classes. The above Combined Funds Composite weighting was as of the beginning of the quarter.



**Periods Ended 3/31/15**

Combined Funds*	1.6%	8.1%	11.5%	11.0%	8.0%
Composite	1.4%	8.0%	10.9%	10.4%	7.7%

\*\* Actual returns are reported net of fees.

Note: All periods over one year are annualized.

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## STOCK AND BOND MANAGERS

### Performance of Asset Pools (Net of Fees)

#### Domestic Stocks

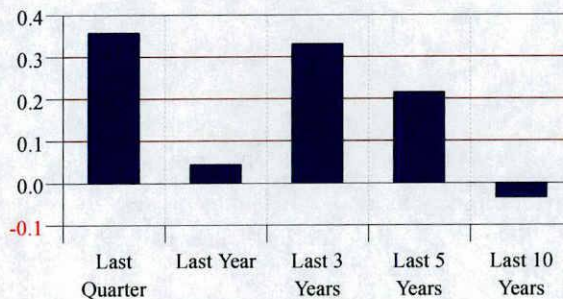
**Target:** Russell 3000

**Expectation:** If one-third of the pool is actively managed, one-third is semi-passively managed, and one-third is passively managed, the entire pool is expected to exceed the target by .18% - .40% annualized over time.

	Periods Ended 3/31/15				
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Domestic Stocks</b>	<b>2.2%</b>	<b>12.4%</b>	<b>16.8%</b>	<b>14.9%</b>	<b>8.3%</b>
Asset Class Target*	1.8%	12.4%	16.4%	14.7%	8.4%

\* The Domestic Equity Asset Class Target is the Russell 3000 effective 10/1/03. From 7/1/99 to 9/30/03, it was the Wilshire 5000 Investable Index.

Value Added to Domestic Equity Target (1)



#### International Stocks

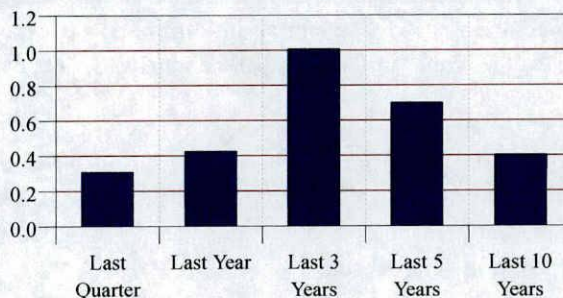
**Target:** Standard MSCI ACWI Free ex U.S. (net)

**Expectation:** If at least one-third of the pool is managed actively, no more than one-third is semi-passively managed, and at least one-quarter is passively managed, the entire pool is expected to exceed the target by .25% - .75% annualized, over time.

	Periods Ended 3/31/15				
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Int'l Stocks</b>	<b>3.8%</b>	<b>-0.6%</b>	<b>7.4%</b>	<b>5.5%</b>	<b>5.9%</b>
Asset Class Target*	3.5%	-1.0%	6.4%	4.8%	5.5%

\* The Int'l Equity Asset Class Target is MSCI ACWI Free ex U.S. (net) effective 10/1/03.

Value Added to International Equity Target (1)



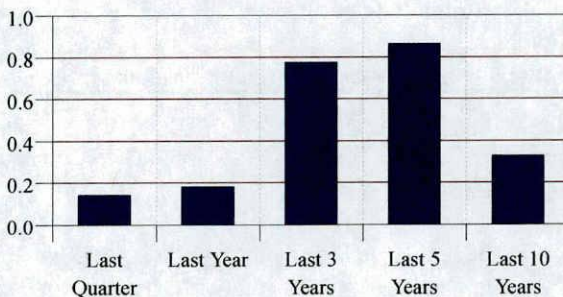
#### Bonds

**Target:** Barclays Capital Aggregate Bond Index

**Expectation:** If half of the pool is actively managed and half is managed semi-passively, the entire pool is expected to exceed the target by .20% - .35% annualized, over time.

	Periods Ended 3/31/15				
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Bonds</b>	<b>1.7%</b>	<b>5.9%</b>	<b>3.9%</b>	<b>5.3%</b>	<b>5.3%</b>
Asset Class Target	1.6%	5.7%	3.1%	4.4%	4.9%

Value Added to Fixed Income Target (1)



Note: All periods over one year are annualized.

(1) Graph data is based on actual return and may not match table due to rounding.

**ALTERNATIVE INVESTMENTS**  
**Performance of Asset Categories**  
**(Net of Fees)**

**Alternative Investments**

**Expectation:** The Alternative investments are measured against themselves using actual portfolio returns.

	Periods Ended 3/31/15				
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
Alternatives	-3.0%	8.8%	13.0%	13.2%	13.6%
Inflation	0.6%	-0.1%	1.0%	1.6%	2.0%

**Real Estate Investments (Equity emphasis)**

**Expectation:** Real estate investments are expected to exceed the rate of inflation by 5% annualized, over the life of the investment.

	Periods Ended 3/31/15				
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
Real Estate	1.1%	17.3%	12.9%	13.0%	7.0%

The SBI began its real estate program in the mid-1980's and periodically makes new investments. Some of the existing investments are relatively immature and returns may not be indicative of future results.

**Private Equity Investments (Equity emphasis)**

**Expectation:** Private equity investments are expected to exceed the rate of inflation by 10% annualized, over the life of the investment.

	Periods Ended 3/31/15				
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
Private Equity	1.3%	11.2%	15.0%	14.3%	14.0%

The SBI began its private equity program in the mid-1980's and periodically makes new investments. Some of the existing investments are relatively immature and returns may not be indicative of future results.

**Resource Investments (Equity emphasis)**

**Expectation:** Resource investments are expected to exceed the rate of inflation by 5% annualized, over the life of the investment.

	Periods Ended 3/31/15				
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
Resource	-15.0%	-0.1%	6.0%	9.7%	22.0%

The SBI began its resource program in the mid-1980's and periodically makes new investments. Some of the existing investments are relatively immature and returns may not be indicative of future results.

**Yield Oriented Investments (Debt emphasis)**

**Expectation:** Yield oriented investments are expected to exceed the rate of inflation by 5.5% annualized, over the life of the investment.

	Periods Ended 3/31/15				
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
Yield Oriented	-7.7%	5.0%	13.8%	13.4%	16.1%

The SBI began its yield oriented program in 1994. Some of the existing investments are relatively immature and returns may not be indicative of future results.

## SUPPLEMENTAL INVESTMENT FUND

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 Voluntary 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.

The investment returns shown in this report are calculated using a time-weighted rate of return formula. All returns are net of investment management fees.

On March 31, 2015 the market value of the entire Fund was \$1.9 billion.

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### Investment Options

	<b>3/31/15 Market Value (In Millions)</b>
<b>Income Share Account</b> - a balanced portfolio utilizing both common stocks and bonds.	\$372
<b>Growth Share Account</b> - an actively managed, all common stock portfolio.	\$218
<b>Common Stock Index Account</b> - a passively managed, all common stock portfolio designed to track the performance of the entire U.S. stock market.	\$482
<b>International Share Account</b> - a portfolio of non U.S. stocks that incorporates both active and passive management.	\$185
<b>Bond Market Account</b> - an actively managed, all bond portfolio.	\$124
<b>Money Market Account</b> - a portfolio utilizing short-term, liquid debt securities.	\$255
<b>Fixed Interest Account</b> - a portfolio of stable value instruments, including security backed contracts and insurance company and bank investment contracts.	\$196
<b>Volunteer Firefighter Account</b> - a balanced portfolio only used by the Voluntary Statewide Volunteer Firefighter Plan.	\$33

**SUPPLEMENTAL INVESTMENT FUND ACCOUNTS**

**INCOME SHARE ACCOUNT**

**Investment Objective**

The primary investment objective of the Income Share Account is similar to that of the Combined Funds. The Account seeks to maximize long-term real rates of return, while limiting short-run portfolio return volatility.

**Asset Mix**

The Income Share Account 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.

	Target	Actual
Stocks	60.0%	60.6%
Bonds	35.0%	34.5%
Cash	5.0%	4.8%
	100.0%	100.0%

**Periods Ended 3/31/15**

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Total Account</b>	1.7%	9.3%	11.3%	10.8%	7.5%
Benchmark*	1.7%	9.5%	10.9%	10.5%	6.9%

\* 60% Russell 3000/35% Barclays Aggregate Bond Index/5% T-Bills Composite.

**GROWTH SHARE ACCOUNT**

**Investment Objective**

The Growth Share Account's investment objective is to generate above-average returns from capital appreciation on common stocks.

**Asset Mix**

The Growth Share Account is invested primarily in the common stocks of US companies. The managers in the account also hold varying levels of cash.

**Periods Ended 3/31/15**

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Total Account</b>	2.3%	12.4%	16.9%	15.0%	8.2%
Benchmark*	1.8%	12.4%	16.4%	14.7%	8.4%

\* Russell 3000.

**COMMON STOCK INDEX ACCOUNT**

**Investment Objective and Asset Mix**

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

The Account is invested 100% in common stock.

**Periods Ended 3/31/15**

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Total Account</b>	1.8%	12.4%	16.4%	14.7%	8.5%
Benchmark*	1.8%	12.4%	16.4%	14.7%	8.4%

\* Russell 3000.

Note: All periods over one year are annualized.



## SUPPLEMENTAL INVESTMENT FUND ACCOUNTS

### INTERNATIONAL SHARE ACCOUNT

#### Investment Objective and Asset Mix

The investment objective of the International Share Account is to earn a high rate of return by investing in the stock of companies outside the U.S. At least 25% of the Account is "passively managed" and no more than 33% of the Account is "semi-passively managed." These portions of the Account are designed to track and modestly outperform, respectively, the return of 23 developed markets included in the MSCI World ex USA Index. The remainder of the Account is "actively managed" by several international managers and emerging markets specialists who buy and sell stocks in an attempt to maximize market value.

	Periods Ended 3/31/15				
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Total Account</b>	<b>3.8%</b>	<b>-0.6%</b>	<b>7.4%</b>	<b>5.5%</b>	<b>6.0%</b>
Benchmark*	3.5%	-1.0%	6.4%	4.8%	5.5%

\* The Int'l Equity Asset Class Target is MSCI ACWI ex USA (net).

### BOND MARKET ACCOUNT

#### Investment Objective

The investment objective of the Bond Market Account is to exceed the return of the broad domestic bond market by investing in fixed income securities.

	Periods Ended 3/31/15				
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Total Account</b>	<b>1.7%</b>	<b>5.9%</b>	<b>3.9%</b>	<b>5.3%</b>	<b>5.3%</b>
Barclays Agg	1.6%	5.7%	3.1%	4.4%	4.9%

#### Asset Mix

The Bond Market Account invests primarily in high-quality, government and corporate bonds that have intermediate to long-term maturities, usually 3 to 20 years.

### MONEY MARKET ACCOUNT

#### Investment Objective

The investment objective of the Money Market Account is to protect principal by investing in short-term, liquid U.S. Government securities.

	Periods Ended 3/31/15				
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Total Account</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>1.7%</b>
3 month T-Bills	0.0%	0.0%	0.1%	0.1%	1.5%

#### Asset Mix

The Account 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.

Note: All periods over one year are annualized.

**SUPPLEMENTAL INVESTMENT FUND ACCOUNTS**

**FIXED INTEREST ACCOUNT**

**Investment Objective**

The investment objectives of the Fixed Interest Account 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 account.

**Asset Mix**

The Account is invested in a well-diversified portfolio of high-quality fixed income securities with strong credit ratings. The Account also invests in contracts issued by highly rated insurance companies and banks which are structured to provide principal protection for the Account's diversified bond portfolios, regardless of daily market changes.

**Periods Ended 3/31/15**

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Total Account</b>	0.5%	1.8%	2.2%	2.8%	3.7%
Benchmark*	0.3%	1.4%	1.1%	1.1%	2.4%

\* The Fixed Interest Benchmark is the 3-year Constant Maturity Treasury Bill +45 basis points.

**VOLUNTEER FIREFIGHTER ACCOUNT**

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:

	<b>Target</b>	<b>Actual</b>
Domestic Stocks	35.0%	35.0%
International Stocks	15.0%	14.9%
Bonds	45.0%	44.9%
Cash	5.0%	5.2%
	100.0%	100.0%

**Periods Ended 3/31/15**

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Total Account</b>	2.0%	6.9%	8.8%	8.5%	--
Benchmark*	2.0%	6.8%	8.1%	8.1%	--

\* The benchmark for this account is 35% Russell 3000, 15% MSCI ACWI ex USA (net), 45% Barclays Aggregate, 5% 3 Month T-Bills.

**DEFERRED COMPENSATION PLAN ACCOUNTS**

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 mutual funds, 5 passively managed mutual funds and 11 target retirement fund options.

The SBI also offers a money market option and a stable value option. All provide for daily pricing needs of the plan administrator. Participants may also choose from hundreds of funds in a mutual fund window. The current plan structure became effective July 1, 2011. The investment options and objectives are outlined below.

On March 31, 2015, the market value of the entire Fund was \$5.8 billion.

**Investment Options**

	<b>3/31/15 Market Value (In Millions)</b>
Vanguard Index Institutional Plus Shares (passive)	\$992.6
Janus Twenty (active)	\$535.9
Vanguard Mid Cap Index Institutional Shares (passive)	\$441.3
T. Rowe Price Small-Cap Stock (active)	\$614.3
Fidelity Diversified International (active)	\$284.1
Vanguard Total International Stock Index Institutional Plus (passive)	\$159.1
Vanguard Balanced Index Institutional Shares (passive)	\$690.9
Dodge & Cox Income Fund (active)	\$209.6
Vanguard Total Bond Market Index Institutional Shares (passive)	\$191.3
SIF Money Market Account	\$56.1
SIF Fixed Interest Account (stable value)	\$1,306.0
State Street Global Advisors MN Target Retirement Funds	\$290.1
Income Fund	\$69.1
2020 Fund	\$69.5
2025 Fund	\$51.7
2030 Fund	\$33.7
2035 Fund	\$25.5
2040 Fund	\$15.3
2045 Fund	\$10.2
2050 Fund	\$7.3
2055 Fund	\$3.3
2060 Fund	\$4.3

## DEFERRED COMPENSATION PLAN ACCOUNTS

### LARGE CAP EQUITY

#### Vanguard Index Institutional Plus (passive)

A passive domestic stock portfolio that tracks the S&P 500.

	Periods Ended 3/31/15			
	Last Quarter	Last Year	Last 3 Years	Last 5 Years
<b>Fund</b>	1.0%	12.7%	16.1%	14.5%
S&P 500	1.0%	12.7%	16.1%	14.5%

#### Janus Twenty (active)

A concentrated fund of large cap stocks which is expected to outperform the S&P 500, over time.

	Periods Ended 3/31/15			
	Last Quarter	Last Year	Last 3 Years	Last 5 Years
<b>Fund</b>	0.3%	10.9%	14.0%	11.0%
S&P 500	1.0%	12.7%	16.1%	14.5%

### MID CAP EQUITY

#### Vanguard Mid Cap Index (passive)

A fund that passively invests in companies with medium market capitalizations that tracks the CRSP US Mid-Cap Index.

	Periods Ended 3/31/15			
	Last Quarter	Last Year	Last 3 Years	Last 5 Years
<b>Fund</b>	4.3%	14.9%	17.9%	16.1%
CRSP U.S. Mid Cap	4.3%	15.0%	18.1%	16.2%

### SMALL CAP EQUITY

#### 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.

	Periods Ended 3/31/15			
	Last Quarter	Last Year	Last 3 Years	Last 5 Years
<b>Fund</b>	3.9%	8.8%	16.7%	16.9%
Russell 2000	4.3%	8.2%	16.3%	14.6%

### 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.

	Periods Ended 3/31/15			
	Last Quarter	Last Year	Last 3 Years	Last 5 Years
<b>Fund</b>	6.4%	3.8%	11.0%	7.7%
MSCI EAFE	4.9%	-0.9%	9.0%	6.2%

#### Vanguard Total International Stock Index (passive)

A fund that seeks to track the investment performance of the MSCI All Country World ex USA Investable Market Index, an index designed to measure equity market performance in developed and emerging markets, excluding the United States.

	Periods Ended 3/31/15			
	Last Quarter	Last Year	Last 3 Years	Last 5 Years
<b>Fund</b>	4.1%	-1.0%	6.7%	--
ACWI ex USA IMI	3.7%	-0.5%	6.9%	--

Note: All periods over one year are annualized.

## DEFERRED COMPENSATION PLAN ACCOUNTS

### LARGE CAP EQUITY

#### Vanguard Balanced Index (passive)

A fund that passively invests in a mix of domestic stocks and bonds. The fund is expected to track a weighted benchmark of 60% CRSP US Total Market Index/40% Barclays Aggregate.

	Periods Ended 3/31/15			
	Last Quarter	Last Year	Last 3 Years	Last 5 Years
<b>Fund</b>	<b>1.8%</b>	<b>9.8%</b>	<b>11.0%</b>	<b>10.8%</b>
Benchmark	1.8	9.8	11.1	10.8

### FIXED INCOME

#### Dodge & Cox Income Fund (active)

A fund that invests primarily in investment grade securities in the U.S. bond market which is expected to outperform the Barclays Aggregate, over time.

	Periods Ended 3/31/15			
	Last Quarter	Last Year	Last 3 Years	Last 5 Years
<b>Fund</b>	<b>1.3%</b>	<b>4.4%</b>	<b>4.1%</b>	<b>5.0%</b>
Barclays Agg	1.6%	5.7%	3.1%	4.4%

#### Vanguard Total Bond Market Index (passive)

A fund that passively invests in a broad, market weighted bond index that is expected to track the Barclays Aggregate.

	Periods Ended 3/31/15			
	Last Quarter	Last Year	Last 3 Years	Last 5 Years
<b>Fund</b>	<b>1.6%</b>	<b>5.6%</b>	<b>3.1%</b>	<b>4.4%</b>
Barclays Agg	1.6%	5.7%	3.1%	4.4%

#### SIF Money Market Account

A fund that invests in short-term debt instruments which is expected to outperform the return on 3-month U.S. Treasury Bills.

	Periods Ended 3/31/15			
	Last Quarter	Last Year	Last 3 Years	Last 5 Years
<b>Fund</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.2%</b>
3-Mo. Treas.	0.0%	0.0%	0.1%	0.1%

### SIF FIXED INTEREST ACCOUNT

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

	Periods Ended 3/31/15			
	Last Quarter	Last Year	Last 3 Years	Last 5 Years
<b>Fund</b>	<b>0.5%</b>	<b>1.8%</b>	<b>2.2%</b>	<b>2.8%</b>
Benchmark	0.3%	1.4%	1.1%	1.1%

### 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.

See the "Performance Summaries" section of the Public Markets, Non-Retirement, and Defined Contribution Report.

Note: All periods over one year are annualized.

## MN COLLEGE SAVINGS PLAN ACCOUNTS

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-CREF to provide administrative, marketing, communication, recordkeeping and investment management services.

On March 31, 2015, the market value of the entire Fund as \$1.2 billion.

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### Investment Options

3/31/15  
Market Value  
(In Millions)

#### Age Based Managed Allocation

Age Band 0-4 Years	\$26.7
Age Band 5-8 Years	\$86.9
Age Band 9-10 Years	\$82.7
Age Band 11-12 Years	\$114.5
Age Band 13-14 Years	\$121.2
Age Band 15 Years	\$56.3
Age Band 16 Years	\$57.1
Age Band 17 Years	\$51.8
Age Band 18 Years and over	\$126.6

#### Risk Based Managed Allocations

Aggressive	\$3.9
Moderate	\$49.6
Conservative	\$2.4

#### Static Options:

U.S. Large Cap Equity	\$4.3
International Equity	\$2.3
U.S. and International Equity	\$282.9
Equity and Interest Accumulation	\$0.3
100% Fixed Income	\$10.5
Money Market	\$8.6
Principal Plus Interest	\$103.3

**MN COLLEGE SAVINGS PLAN ACCOUNTS**

**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.

See the "Performance Summaries" section of the Public Markets, Non-Retirement, and Defined Contribution Report.

**RISK BASED ALLOCATIONS**

The Risk Based Allocation Option offers three separate allocation investment options: Aggressive, Moderate and Conservative, which have a fixed risk level and does not change as the Beneficiary ages.

See the "Performance Summaries" section of the Public Markets, Non-Retirement, and Defined Contribution Report.

**U.S. LARGE CAP EQUITY INDEX**

A passive domestic stock portfolio that tracks the S&P 500.

	Periods Ended 3/31/15			
	Last Quarter	Last Year	Last 3 Years	Last 5 Years
<b>Fund</b>	0.9%	--	--	--
<b>S&amp;P 500</b>	1.0%	--	--	--

**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% Emerging Markets Free Index.

	Periods Ended 3/31/15			
	Last Quarter	Last Year	Last 3 Years	Last 5 Years
<b>Fund</b>	4.8%	-1.0%	--	--
<b>Benchmark</b>	4.4%	-0.5%	--	--

**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.

	Periods Ended 3/31/15			
	Last Quarter	Last Year	Last 3 Years	Last 5 Years
<b>Fund</b>	3.0%	9.2%	13.3%	12.1%
<b>Benchmark</b>	2.9%	9.3%	13.6%	12.4%

Note: All periods over one year are annualized.

MN COLLEGE SAVINGS PLAN ACCOUNTS

**EQUITY AND INTEREST ACCUMULATION**

A fund that passively invests half of the portfolio in equities across all capitalization ranges and the other half in a funding agreement. The fund is expected to track a weighted benchmark of 50% Russell 3000 and 50% 3-month T-Bill.

	Periods Ended 3/31/15			
	Last Quarter	Last Year	Last 3 Years	Last 5 Years
<b>Fund</b>	1.1%	--	--	--
<b>Benchmark</b>	1.0%	--	--	--

**100% FIXED INCOME**

A fund that passively invests in fixed income holdings that tracks the Barclays 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% Barclays Aggregate, 20% inflation-linked bond, and 10% high yield.

	Periods Ended 3/31/15			
	Last Quarter	Last Year	Last 3 Years	Last 5 Years
<b>Fund</b>	1.7%	4.8%	1.9%	3.8%
<b>Benchmark</b>	1.7%	5.1%	2.5%	4.4%

**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.

	Periods Ended 3/31/15			
	Last Quarter	Last Year	Last 3 Years	Last 5 Years
<b>Fund</b>	0.0%	0.0%	0.0%	-0.1%
<b>iMoney Net Average All Taxable</b>	0.0%	0.0%	0.0%	0.0%

**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.

	Periods Ended 3/31/15			
	Last Quarter	Last Year	Last 3 Years	Last 5 Years
<b>Fund</b>	0.3%	1.2%	1.3%	1.8%
<b>3-Month T-Bill</b>	0.0%	0.0%	0.1%	0.1%

Note: All periods over one year are annualized.



## ASSIGNED RISK PLAN

### Investment Objectives

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.

### Asset Mix

The Assigned Risk Plan is invested in a portfolio of common stocks and bonds. The actual asset mix will fluctuate in response to changes in the Plan's liability stream.

	3/31/15 Target	3/31/15 Actual
Stocks	20.0%	20.3%
Bonds	80.0%	79.7%
Total	100.0%	100.0%

### Investment Management

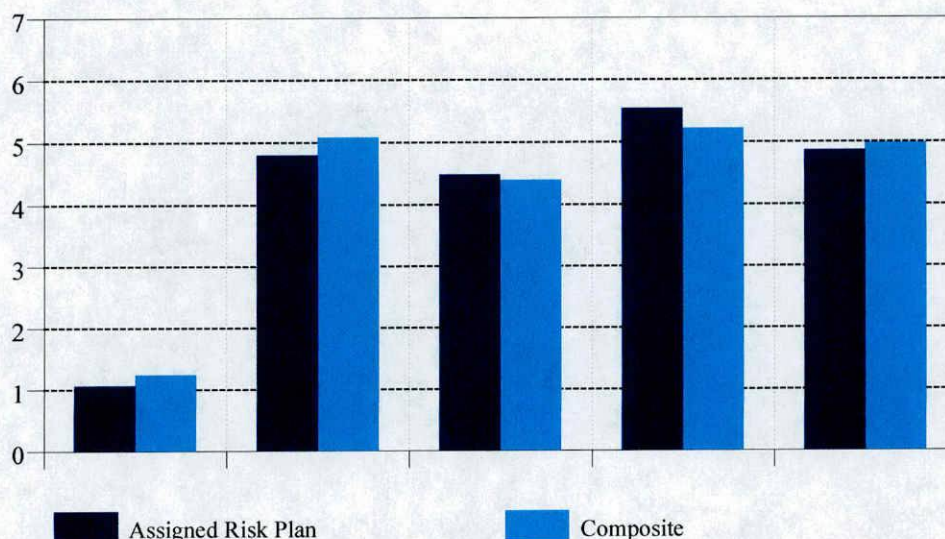
RBC Global Asset Management (US) manages the bond segment of the Fund. GE Investment Management manages the equity segment.

### Performance Benchmarks

Since July 1, 2011, the fixed income benchmark has been the Barclays Capital Intermediate Government Index. Since July 1, 1994, the equity benchmark has been the S&P 500 index. The total fund benchmark is a combination of the fixed income and equity benchmarks, weighted according to the total fund asset allocation targets.

### Market Value

On March 31, 2015 the market value of the Assigned Risk Plan was \$303 million.



Periods Ended 3/31/15

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Total Fund*</b>	<b>1.1%</b>	<b>4.8%</b>	<b>4.5%</b>	<b>5.5%</b>	<b>4.9%</b>
Composite	1.2%	5.1%	4.4%	5.2%	5.0%
<b>Equity Segment*</b>	<b>0.6%</b>	<b>11.5%</b>	<b>16.1%</b>	<b>13.0%</b>	<b>8.1%</b>
S&P 500	1.0%	12.7%	16.1%	14.5%	8.0%
<b>Bond Segment*</b>	<b>1.2%</b>	<b>3.0%</b>	<b>1.5%</b>	<b>3.3%</b>	<b>3.8%</b>
Barclays Int Gov Index	1.3%	3.2%	1.5%	2.8%	4.0%

\* Actual returns are calculated net of fees.

Note: All periods over one year are annualized.

## PERMANENT SCHOOL FUND

### Investment Objectives

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.

### Asset Mix

Effective with FY98, 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.

	3/31/15 Target	3/31/15 Actual
Stocks	50.0%	51.1%
Bonds	48.0%	47.0%
Cash	2.0%	1.9%
Total	100.0%	100.0%

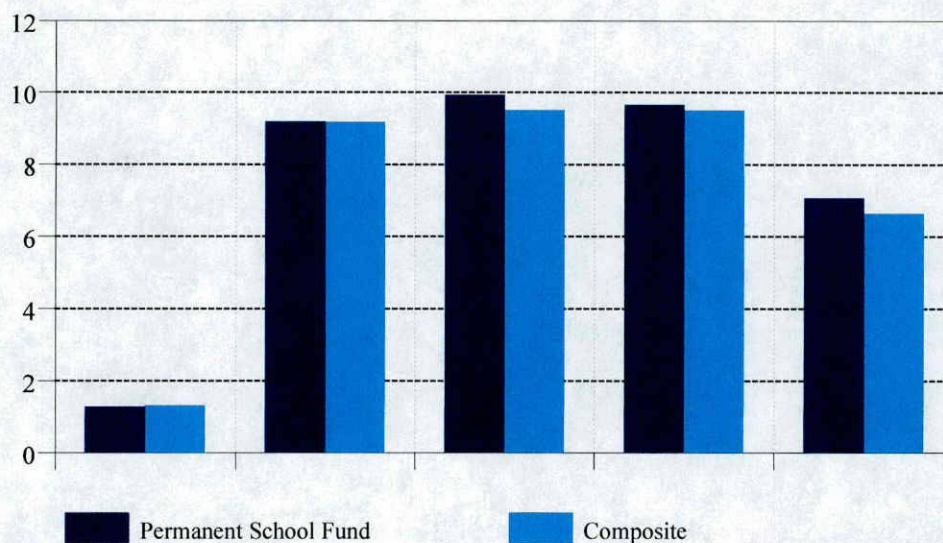
Prior to FY98, the Fund was invested entirely in fixed income securities in order to maximize current income. It is understood that the change in asset mix will reduce portfolio income in the short term, but will enhance the value of the fund, over time.

### Investment Management

SBI staff manages all assets of the Permanent School Fund. 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.

### Market Value

On March 31, 2015 the market value of the Permanent School Fund was \$1.2 billion.



### Periods Ended 3/31/15

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Total Fund*</b>	<b>1.3%</b>	<b>9.2%</b>	<b>9.9%</b>	<b>9.7%</b>	<b>7.1%</b>
Composite	1.3%	9.2%	9.5%	9.5%	6.6%
<b>Equity Segment*</b>	<b>1.0%</b>	<b>12.8%</b>	<b>16.1%</b>	<b>14.5%</b>	<b>8.1%</b>
S&P 500	1.0%	12.7%	16.1%	14.5%	8.0%
<b>Bond Segment*</b>	<b>1.7%</b>	<b>5.8%</b>	<b>4.0%</b>	<b>4.7%</b>	<b>5.5%</b>
Barclays Agg	1.6%	5.7%	3.1%	4.4%	4.9%

\* Actual returns are calculated net of fees.

Note: All periods over one year are annualized.

## ENVIRONMENTAL TRUST FUND

### Investment Objectives

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.

### Asset Mix

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. As of July 1, 1999, the asset allocation changed from 50% stocks/50% fixed income to 70% stocks/30% fixed income.

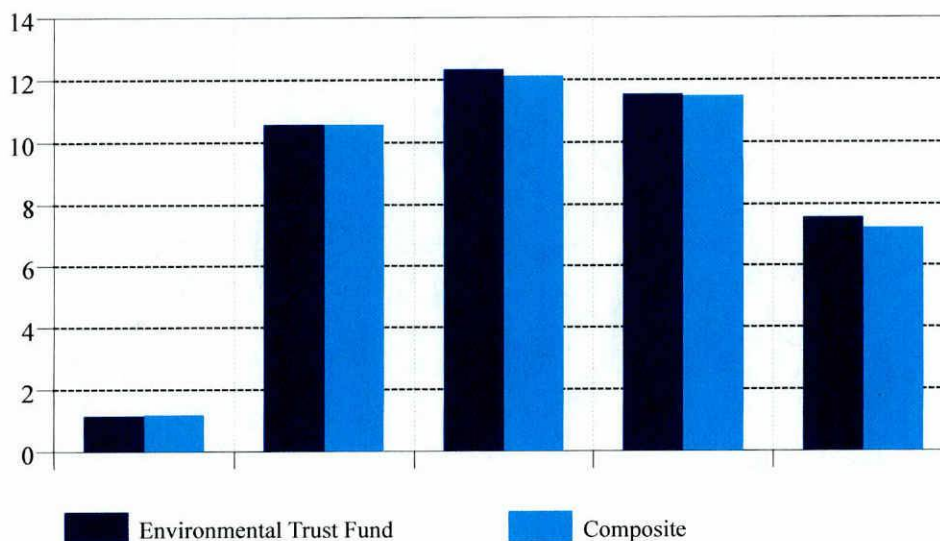
### Investment Management

SBI staff manages all assets of the Environmental Trust Fund. 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.

### Market Value

On March 31, 2015 the market value of the Environmental Trust Fund was \$894 million.

	3/31/15 Target	3/31/15 Actual
Stocks	70.0%	69.7%
Bonds	28.0%	28.4%
Cash	2.0%	1.9%
Total	100.0%	100.0%



### Periods Ended 3/31/15

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Total Fund*</b>	<b>1.2%</b>	<b>10.6%</b>	<b>12.3%</b>	<b>11.5%</b>	<b>7.6%</b>
Composite	1.2%	10.6%	12.1%	11.5%	7.2%
<b>Equity Segment*</b>	<b>1.0%</b>	<b>12.8%</b>	<b>16.1%</b>	<b>14.5%</b>	<b>8.1%</b>
S&P 500	1.0%	12.7%	16.1%	14.5%	8.0%
<b>Bond Segment*</b>	<b>1.7%</b>	<b>5.8%</b>	<b>4.0%</b>	<b>4.7%</b>	<b>5.5%</b>
Barclays Agg	1.6%	5.7%	3.1%	4.4%	4.9%

\* Actual returns are calculated net of fees.

Note: All periods over one year are annualized.

## CLOSED LANDFILL INVESTMENT FUND

### Investment Objectives

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.

### Asset Mix

The Closed Landfill Investment 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. From July of 1999 to September of 2014 the Closed Landfill Investment Fund was invested entirely in common stock.

	3/31/15 Target	3/31/15 Actual
Stocks	70.0%	69.5%
Bonds	30.0	30.5
Total	100.0%	100.0%

### Investment Management

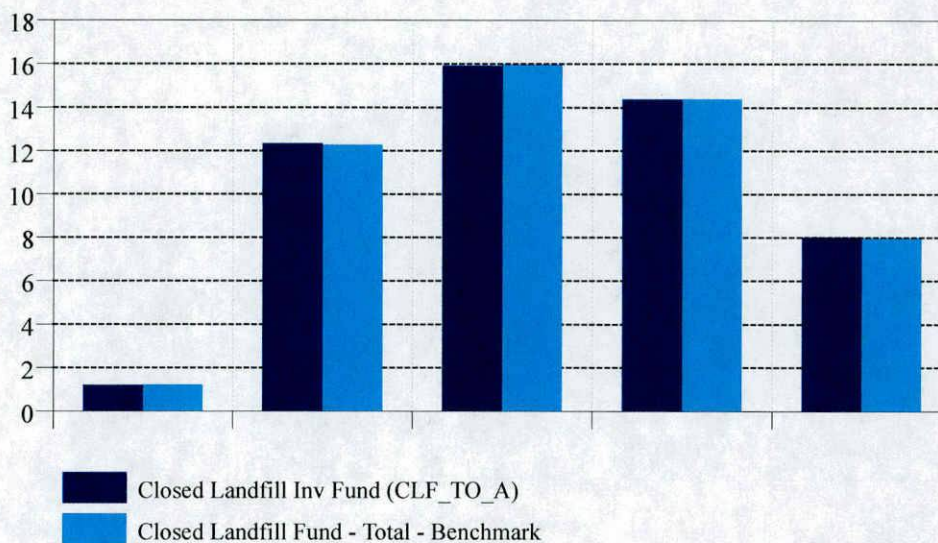
SBI staff manage all assets of the Closed Landfill Investment Fund. The bond segment is actively managed to add incremental value through sector, security and yield curve decisions. The stock segment is managed to passively track the performance of the S&P 500.

### Legislation

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 principle and earnings back into the fund and FY 2014 was the first of four scheduled payments to the fund.

### Market Value

On March 31, 2015, the market value of the Closed Landfill Investment Fund was \$69 million.



### Periods Ended 3/31/15

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Total Fund (1)</b>	1.2%	12.3%	15.9%	14.4%	8.0%
<b>Composite (3)</b>	1.2%	12.3%	16.0%	14.4%	8.0%
<b>Equity Segment (1)</b>	1.0%	12.8%	16.1%	14.5%	8.1%
<b>S&amp;P 500</b>	1.0%	12.7%	16.1%	14.5%	8.0%
<b>Bond Segment (1,2)</b>	1.7%	--	--	--	--
<b>Barclays Agg</b>	1.6%	--	--	--	--

(1) Actual returns are calculated net of fees.

(2) Bond Segment admission date 9/10/14. Returns to be reported upon first full quarter of history (12/31/2014)

(3) The benchmark of the fund is the S&P 500 from mid July 1999 to 9/9/14. As of 9/10/14 the benchmark consist of S&P 500 (70%) and Barclays Aggregate (30%).

Note: All periods over one year are annualized.

STATE CASH ACCOUNTS

**Description**

State Cash Accounts represent the balances in more than 400 separate accounts that flow through the Minnesota State Treasury. These accounts vary greatly in size.

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.

In addition, each State of Minnesota bond sale requires two additional pools, one for bond proceeds and one for debt reserve transfer.

Because of special legal restrictions, a small number of cash accounts cannot be commingled. These accounts are invested separately.

**Investment Objectives**

**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.

**Asset Mix**

The SBI maximizes current income while preserving capital 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.

**Investment Management**

All state cash accounts are managed by SBI investment staff. As noted above, most of the assets of the cash accounts are invested through the large commingled investment pool.

Period Ending 3/31/15

	Market Value (Millions)	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
Treasurer's Cash Pool*	\$8,366	0.3%	0.5%	0.5%	0.5%	2.2%
Custom Benchmark**		0.0%	0.0%	0.0%	0.0%	1.4%
3 month T-Bills		0.0%	0.0%	0.1%	0.1%	1.5%

\* Actual returns are calculated net of fees.

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

**MINNESOTA STATE BOARD OF INVESTMENT**  
**Composition of State Investment Portfolios By Type of Investment**  
**Market Value March 31, 2015 (in Thousands)**

	Cash & ST	Bonds Int	Bonds Ext	Stock Int	Stock Ext	Ext Intl	Alternative	Total
<b>COMBINED RETIREMENT FUNDS</b>								
Teachers Retirement Fund	398,130 1.96%	0	4,839,316 23.80%	0	9,648,736 47.46%	2,976,171 14.64%	2,467,836 12.14%	20,330,189 100%
Public Employees Retirement Fund	363,774 2.05%	0	4,219,354 23.78%	0	8,412,642 47.42%	2,594,895 14.63%	2,151,682 12.13%	17,742,347 100%
State Employees Retirement Fund	218,236 1.87%	0	2,775,484 23.82%	0	5,533,822 47.50%	1,706,918 14.65%	1,415,373 12.15%	11,649,833 100%
Public Employees Police & Fire	142,561 1.94%	0	1,755,024 23.81%	0	3,499,206 47.47%	1,079,337 14.64%	894,984 12.14%	7,371,112 100%
Highway Patrol Retirement Fund	12,828 1.92%	0	159,376 23.81%	0	317,767 47.48%	98,016 14.65%	81,275 12.14%	669,262 100%
Judges Retirement Fund	3,568 2.04%	0	41,685 23.78%	0	83,113 47.42%	25,636 14.63%	21,258 12.13%	175,260 100%
Correctional Employees Retirement	17,101 1.89%	0	215,401 23.82%	0	429,472 47.49%	132,471 14.65%	109,845 12.15%	904,290 100%
Public Employees Correctional	9,906 2.04%	0	115,204 23.79%	0	229,696 47.42%	70,850 14.63%	58,748 12.13%	484,404 100%
Legislative Retirement Fund	83 1.76%	0	1,124 23.85%	0	2,241 47.56%	691 14.66%	573 12.16%	4,712 100%
PERA Minneapolis Retirement	15,342 1.77%	0	207,313 23.85%	0	413,348 47.55%	127,498 14.67%	105,722 12.16%	869,223 100%
Duluth Teachers Retirement	4,064 1.76%	0	55,231 23.85%	0	110,121 47.56%	33,968 14.67%	28,166 12.16%	231,550 100%
<b>TOTAL COMBINED FUNDS</b>	<b>1,185,593 1.96%</b>	<b>0</b>	<b>14,384,512 23.80%</b>	<b>0</b>	<b>28,680,164 47.46%</b>	<b>8,846,451 14.63%</b>	<b>7,335,462 12.14%</b>	<b>60,432,182 100%</b>

	Cash & ST	Bonds Int	Bonds Ext	Stock Int	Stock Ext	Ext Intl	Alternative	Total
<b>MINNESOTA SUPPLEMENTAL FUNDS</b>								
Income Share Account	18,043 4.85%	128,307 34.51%	0	0	225,451 60.64%	0	0	371,801 100%
Growth Share Account	0	0	0	0	218,283 100.00%	0	0	218,283 100%
Money Market Account	254,573 100.00%	0	0	0	0	0	0	254,573 100%
Common Stock Index	0	0	0	0	481,684 100.00%	0	0	481,684 100%
Bond Market Account	0	0	123,975 100.00%	0	0	0	0	123,975 100%
International Share Account	0	0	0	0	0	185,081 100.00%	0	185,081 100%
Fixed Interest Account	0	0	195,869 100.00%	0	0	0	0	195,869 100%
Volunteer Firefighters Account	1,702 5.22%	0	14,658 44.87%	0	11,445 35.04%	4,861 14.88%	0	32,666 100%
<b>TOTAL SUPPLEMENTAL FUNDS</b>	274,318 14.72%	128,307 6.88%	334,502 17.95%	0	936,863 50.27%	189,942 10.19%	0	1,863,932 100%
<b>MN DEFERRED COMP PLAN</b>	63,899 1.11%	0	2,106,437 36.50%	0	3,099,974 53.72%	500,999 8.68%	0	5,771,309 100%
<b>TOTAL RETIREMENT FUNDS</b>	1,523,810 2.24%	128,307 0.19%	16,825,451 24.72%	0	32,717,001 48.07%	9,537,392 14.01%	7,335,462 10.78%	68,067,423 100%

	Cash & ST	Bonds Int	Bonds Ext	Stock Int	Stock Ext	Ext Intl	Alternative	Total
ASSIGNED RISK PLAN	2,130 0.71%	0	239,168 78.99%	0	61,488 20.31%	0	0	302,786 100%
ENVIRONMENTAL FUND	17,353 1.94%	253,866 28.40%	0	622,567 69.66%	0	0	0	893,786 100%
PERMANENT SCHOOL FUND	23,107 1.98%	549,722 46.92%	0	598,711 51.10%	0	0	0	1,171,540 100%
CLOSED LANDFILL FUND	0	21,095 30.53%	0	48,006 69.47%	0	0	0	69,101 100%
MISCELLANEOUS TRUST FUND	491 0.33%	63,044 42.04%	0	86,424 57.63%	0	0	0	149,959 100%
Other Post Employment Funds (OPEB's)	25,158 5.11%	68,586 13.93%	0	398,575 80.96%	0	0	0	492,319 100%
TREASURERS CASH	8,125,062 100.00%	0	0	0	0	0	0	8,125,062 100%
MISCELLANEOUS STATE ACCOUNTS	0	241,268 100.00%	0	0	0	0	0	241,268 100%
MN COLLEGE SAVINGS PLAN	8,551 0.72%	0	561,910 47.14%	0	434,729 36.48%	186,690 15.66%	0	1,191,880 100%
TOTAL CASH AND NON-RETIREMENT	8,201,852 64.90%	1,197,581 9.48%	801,078 6.34%	1,754,283 13.88%	496,217 3.93%	186,690 1.48%	0	12,637,701 100%
GRAND TOTAL	9,725,662 12.05%	1,325,888 1.64%	17,626,529 21.84%	1,754,283 2.17%	33,213,218 41.15%	9,724,082 12.05%	7,335,462 9.09%	80,705,124 100%



**TAB**

**B**

## **EXECUTIVE DIRECTOR'S ADMINISTRATIVE REPORT**

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DATE: May 12, 2015

TO: Members, State Board of Investment

FROM: **Mansco Perry III**

### **1. Reports on Budget and Travel**

A report on the SBI's administrative budget for the period ending March 31, 2015 is included as **Attachment A**.

A report on travel for the period from January 1, 2015 – March 31, 2015 is included as **Attachment B**.

### **2. Legislative Update**

I will present an update on the following legislative matters summarized in **Attachment C**.

- Create Easement Stewardship Accounts for DNR and BWSR
- Work with Human Services to establish the Achieving a Better Life Experience Act (ABLE) accounts
- Change to an 8.0% interest rate assumption, for applicable retirement plans, from the 2011 select and ultimate interest rate assumption
- Limit to full-time statewide executive branch employees

### **3. Update on Sudan**

Each quarter, staff provides a report to the Board on steps taken to implement *Minnesota Statutes*, section 11A.243 that requires SBI actions concerning companies with operations in Sudan. Staff receives periodic reports from the Conflict Risk Network (CRN) about the status of companies with operations in Sudan.

The SBI is restricted from purchasing stock in the companies designated as highest offenders by the CRN. Accordingly, staff updates the list of restricted stocks and notifies investment managers that they may not purchase shares in companies on the restricted list. Staff receives monthly reports from the SBI's custodian bank concerning SBI holdings of companies on the CRN list and writes letters as required by law.

According to the law, after 90 days following the SBI's communication, a company continues to have active business operations in Sudan, the SBI must divest holdings of the company according to the following schedule:

- at least 50% shall be sold within nine months after the company appeared on the Task Force list; and
- 100% shall be sold within fifteen months after the company appeared on the list.

In the first quarter, SBI managers divested 28,188 shares in companies on the divestment list.

**Attachment D** is a copy of the March 20, 2015 letter sent to each international equity manager and domestic equity manager containing the most recent restricted list and the list of stocks to be divested.

**Attachment E** is an updated list of companies with operations in Sudan.

#### **4. Update on Iran**

Each quarter, staff provides a report to the Board on steps taken to implement *Minnesota Statutes*, section 11A.244 that requires SBI actions concerning companies with operations in Iran.

SBI receives information on companies with Iran operations from IW Financial, through Glass Lewis. Staff receives monthly reports from the SBI's custodian bank concerning SBI holdings of companies on the restricted list and writes letters as required by the law.

According to the law, if after 90 days following the SBI's communication a company continues to have scrutinized business operations, the SBI must divest all publicly traded securities of the company according to the following schedule:

- at least 50% shall be sold within nine months after the company appeared on the scrutinized list; and
- 100% within fifteen months after the company appeared on the scrutinized list.

In the first quarter, SBI held no shares of companies on the divestment list.

**Attachment F** is a copy of the March 20, 2015 letter sent to each international equity manager and domestic equity manager and fixed income manager containing the end of quarter restricted list and the list of companies to be divested.

#### **5. Litigation Update**

SBI legal counsel will give the Board a verbal update on the status of the litigation at the Board meeting on June 3, 2015.

ATTACHMENT A

**STATE BOARD OF INVESTMENT  
FISCAL YEAR 2015 ADMINISTRATIVE BUDGET REPORT  
FISCAL YEAR TO DATE THROUGH MARCH 31, 2015**

ITEM	FISCAL YEAR 2015 BUDGET	FISCAL YEAR 2015 3/31/2015
<b>PERSONAL SERVICES</b>		
FULL TIME EMPLOYEES	\$ 4,151,000	\$ 2,600,909
PART TIME EMPLOYEES	\$ 0	
MISCELLANEOUS PAYROLL	100,000	67,524
<b>SUBTOTAL</b>	<b>\$ 4,251,000</b>	<b>\$ 2,668,433</b>
<b>STATE OPERATIONS</b>		
RENTS & LEASES	242,000	155,146
REPAIRS/ALTERATIONS/MAINTENANCE	12,000	7,438
PRINTING & BINDING	5,000	8,063
PROFESSIONAL/TECHNICAL SERVICES	150,000	251
COMPUTER SYSTEMS SERVICES	20,000	9,473
COMMUNICATIONS	30,000	17,406
TRAVEL, IN-STATE	1,000	329
TRAVEL, OUT-STATE	56,000	35,603
SUPPLIES	52,000	13,544
EQUIPMENT	33,000	937
EMPLOYEE DEVELOPMENT	25,000	17,178
OTHER OPERATING COSTS	221,000	85,301
<b>SUBTOTAL</b>	<b>\$ 847,000</b>	<b>\$ 350,669</b>
<b>TOTAL ADMINISTRATIVE BUDGET</b>	<b>\$ 5,098,000</b>	<b>\$ 3,019,102</b>

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**ATTACHMENT B**

**STATE BOARD OF INVESTMENT**

**Travel Summary by Date  
SBI Travel January 1, 2015 – March 31, 2015**

<b>Purpose</b>	<b>Name(s)</b>	<b>Destination and Date</b>	<b>Total Cost</b>
<b>Manager Monitoring Alternative Investment Managers:</b> Blackstone Capital Partners; Blackstone Real Estate Partners; KKR	A. Krech R. Hill	New York, NY 1/5-1/7	\$3,725.84
<b>Manager Search Alternative Investment Managers:</b> Avenue Capital; GSO Capital Partners; Rhone Group LLC; MHR Fund Mgmt. LLC			
<b>Conference:</b> Emerging Markets Forum sponsored by Elkind Economics, Inc.	M. Perry	Dallas, TX 1/13-1/14	\$1,101.29
<b>Manager Monitoring Alternative Investment Managers:</b> EnCap	A. Krech	Houston, TX 1/15-1/16	\$1,465.44
<b>Manager Search Alternative Investment Managers:</b> EnerVest			
<b>Manager Monitoring Fixed Income Managers:</b> Dodge & Cox; PIMCO; Western Asset Mgmt.	C. Boll A. Griga	Newport Beach, CA Pasadena, CA Los Angeles, CA San Francisco, CA	\$4,228.42
<b>Manager Search Fixed Income Managers:</b> DoubleLine Capital; TCW		1/19-1/22	

**STATE BOARD OF INVESTMENT**

**Travel Summary by Date  
SBI Travel January 1, 2015 – March 31, 2015**

<b>Purpose</b>	<b>Name(s)</b>	<b>Destination and Date</b>	<b>Total Cost</b>
<b>Manager Monitoring</b> <b>Fixed Income Managers:</b> PIMCO; Western Asset Mgmt. <b>Manager Monitoring</b> <b>Alternative Investment</b> <b>Manager:</b> Oaktree Capital Mgmt. <b>Manager Search</b> <b>Fixed Income Managers:</b> DoubleLine Capital; TCW	R. Hill	Newport Beach, CA Pasadena, CA Los Angeles, CA 1/19-1/22	\$2,100.75
<b>Manager Monitoring</b> <b>Alternative Investment</b> <b>Manager:</b> TA Realty Annual Meeting	J. Stacy	Boston, MA 3/10-3/11	\$1,603.93
<b>Conference:</b> Government Investment Officers Association (GIOA)	S. Kuettel	Las Vegas, NV 3/10-3/13	\$1,082.95

**Bills of Interest to the Minnesota State Board of Investment  
2015 Legislative Session Includes action through 5/7/2015**

<b>Name of Bill</b>	<b>HF/SF # and Author</b>	<b>Current Status</b>	<b>Notes</b>
<b>Omnibus environment and natural resources finance bill</b> (Previously tracked SF2101)	<b>HF846</b> McNamara	House conferees: McNamara; Hamilton; Hackbarth; Fabian; and Dill	Chapter 84.69 creates the <b>natural resources conservation easement account</b> for DNR. Chapter 103B.103 creates the <b>water and soil conservation easement stewardship account</b> for the Board of Water and Soil Resources (BWSR). Established for farmers to improve water for environment.  <b>SBI Role: The SBI must manage the account of maximize long-term gain. Staff is working with MMB to have account ready if language becomes law. Staff will prepare material for 5/19 IAC mtg and 6/3 Board meeting.</b>
	<b>SF1764</b> Tomassoni	Senate conferees: Tomassoni; Sparks; Hoffman; Marty; and Weber	
<b>Omnibus Health &amp; Human Services Bill</b> (Previously tracked as HF161 Zerwas and SF 39 Hoffman: Achieving a Better Life Experience Act (ABLE);	<b>HF1638</b> Dean	House conferees: Dean, M.; Mack; Schomacker; McDonald; Zerwas	Amends Statute 13.461 to establish accounts for certain persons with disabilities; subject to section 529A(b) of IRS Code;  <b>SBI Role: The SBI is authorized to invest the money and may contract with third parties for investment mgmt., record keeping, or other services; Commissioner of Human Services shall consult with SBI executive director in designing and establishing plan requirements.</b>
	<b>SF1458</b> Lourey	Senate conferees: Lourey; Sheran; Hayden; Franzen; Rosen	
<b>Designation of Procurements From Service-Disabled, Veteran Owned Business</b>	<b>HF1106</b> Davids	Lobbyist has spoken to staff that they will not pursue language this legislative session. Staff will continue to monitor.	Requires Commissioner of Admin under new code for Chapter 16C to ensure that service-disabled veteran owned business receive a percentage of state procurement and provide bid preferences. Language in 16C was removed and amended language as added to 11A that specific to SBI.  <b>SBI Role: The recent initiative of this proposal would have the board establish policies that are consistent with standard of care requirements to encourage managers to increase business with resident broker dealers majority owned by minorities, women, veterans, and persons with disabilities.</b>
	<b>SF1115</b> Carlson		



<b>2015 Omnibus Retirement Bill</b>	<b>HF1508</b> O'Driscoll	On 4/27 Re-referred to Committee on State Govt Finance	Modifying various economic actuarial assumptions: eight plans move to 8% from select and ultimate rates. This bill also modifies the financial sustainability triggers for postretirement adjustment mechanisms.
	<b>SF1398</b> Pappas	On 5/5 Senate Finance Committee approved with minor technical changes. Will proceed to the Senate floor.	
<b>Omnibus State Gov't Finance Bill</b>	<b>HF495</b> Anderson	House conferees: Anderson, S.; Albright; O'Driscoll; Loonan; Laine	Provides general fund appropriations for Investment Board of \$139,000 in each of the 2016 and 2017 fiscal years.
	<b>SF888</b> Saxhaug	Senate conferees: Saxhaug; Pappas; Carlson; Wiklund; Metzen	<b>SBI's Role: The most recent house bill includes language to 43A.035 that would limit the number of full-time statewide executive branch employees. This would apply to the SBI. The senate bill does not include this language.</b>
<b>Middle class family tax reductions provided, loopholes closed, tax fairness provided</b> (Previously tracked as HF1707 Drazkowski & HF 1706 Drazkowski Environmental & Natural Resources Trust Fund Payment Account & Outdoor Heritage Fund Payment Account and SF1655 Saxhaug)	<b>HF848</b> Davids	The long-term care language has been removed from this bill.	Added language to 11A.237 to establish an account for <b>County Joint Trust Fund Payments</b> when requested by a county as required under 97A.056 for <b>outdoor heritage trust fund payment account</b> and in 116P.045 for the <b>environment and natural resources trust fund payment account</b> (both PILTS).
			<b>SBI Role: SBI, when requested by a county per the above chapters, shall invest the funds in a special account established in section 11A.14.</b>
<b>Middle class family tax reductions provided, loopholes closed, tax fairness provided</b> (Previously tracked as HF921 Schomacker, Long-Term Care Savings Plan)	<b>HF848</b> Davids	The language regarding the outdoor heritage trust fund payment and environment and natural resource trust fund payment accounts have been removed from this bill.	Creates the MN Long-Term Care Savings Plan in Chapter 16A.728 which would be invested with financial institutions, banks, thrifts, etc. The SBI would have the authority to invest the assets if this is established as a trust fund, which would be determined by MMB finding an administrator for the trust.
			<b>SBI Role: As long as this account is established as a savings account there is no impact to SBI. If the MMB selects an administrator for a trust, then the SBI would have authority to invest.</b>

ATTACHMENT D

**Letter to SBI International and Domestic Equity Managers**

March 20, 2015

**Regarding: Sudan Companies**

Dear Manager:

The Minnesota State Board of Investment (SBI) sent you prior communication concerning holdings in companies doing business in Sudan. **This new communication applies to all SBI equity portfolios managed by your organization and replaces all prior communications. This communication also applies to all depository receipts or ADR's of any of the listed companies.**

*Minnesota Statutes*, section 11A.243 requires the SBI to implement a Sudan restriction.

**Attachment 1** is the List of Restricted Sudan Stocks. **These securities may not be purchased for the SBI portfolio that your organization manages.** If you own securities of companies on the Restricted List **and** the companies are **not** on the divestment list, then you do not need to sell your holdings. Please note that the attached list makes changes to the List of Restricted Sudan Companies that was attached to the December 19, 2014 letter you received. **This new list is effective March 31, 2015.**

The following company has been **added** to the Restricted List:

- **ASEC Company for Mining (ASCOM)** **Egypt**

The following companies have been **removed from** the Restricted List:

- **Etalissements Maurel et Prom** **France**
- **Schlumberger LTD** **Curacao**
- **Daqing Oilfield Drilling & Exploration\*** **China**
- **China Petroleum Pipeline Engineering Corp\*** **China**
- **MCM Co. LTD—Soudan\*** **Morocco**
- **Meyas Sand Minerals Co. Ltd\*** **Canada**
- **Panorama Petroleum** **Canada**

\*privately held company

**Attachment 2** is the List of Sudan Stocks Requiring Divestment. There have been no changes to this list.

**If you own securities of companies on the List of Sudan Companies Requiring Divestment in the SBI portfolio that your organization manages, then you must divest those holdings according to the schedule provided in the Attachment:**

- At least 50 percent of a company's holdings must be sold by the date indicated, and
- At least 100 percent of a company's holdings must be sold by the date indicated.

**Attachment 3** is a list of security identifiers for the companies on the List of Restricted Sudan Stocks (**Attachment 1**) that your organization may use. The SBI does not represent that this is a complete list of identifiers. The manager is responsible for identifying all listings. Please note that the list of security identifiers may have information on companies not on the restricted list.

If you have any questions about this matter, please contact your assigned SBI Investment Officer or Patricia Ammann.

Sincerely,

LeaAnn M. Stagg  
Chief Operating Officer

Enclosures

cc: Michael J. Menssen, Director, Public Markets  
Tammy Brusehaver, Investment Officer, Public Markets  
Inma Conde Goldman, Investment Officer, Public Markets  
Stephanie Gleeson, Investment Officer, Public Markets  
Robert Weiler, Investment Officer, Public Markets  
Patricia Ammann, Investment Officer, DC & Trust Services  
Mercy Ndungu, Investment Officer, DC & Trust Services  
Nate Blumenshine, Investment Analyst

**ATTACHMENT 1****Restricted Sudan Stocks**

<b>Company Name</b>	<b>Country of Origin</b>
Andritz AG	Austria
Orca Gold Inc.	Canada
Statesman Resources Limited	Canada
AKM Industrial Company Limited	China
China Gezhouba Group Company Limited	China
China Machinery Engineering Corporation	China
China North Industries Group Corporation AKA CNGC/NORINCO	China
China Petroleum and Chemical Corporation AKA Sinopec Corp.	China
China Poly Group Corporation	China
Daqing Huake Group Company Limited	China
Dongfeng Motor Group Company Limited	China
Harbin Electric Company Ltd.	China
Jiangxi Hongdu Aviation	China
Jinan Diesel Company Limited	China
Kingdream PLC	China
NORINCO International Cooperation Ltd	China
North Huajin Chemical Industries Co.	China
North Navigation Control Technology Co. Ltd	China
Petrochina Co. Ltd AKA China National Petroleum Corporation (CNPC)	China
Poly Property Group Co. Ltd.	China
Power Construction Corporation of China Ltd.	China
Sichuan Nitrocell Co. Ltd	China
Sinopec Engineering Group Co. Ltd.	China
Sinopec Shanghai Petrochemicals Ltd	China
Sinopec Yizheng Chemical Fibre Co Ltd	China
ASEC Company for Mining (ASCOM)	Egypt
Egypt Kuwait Holding Company	Egypt
Alstom	France
MAN SE	Germany
Renk AG	Germany
Volkswagen AG	Germany
Kunlun Energy Co. Ltd	Hong Kong
Sinopec Kanton Holdings Limited	Hong Kong
Alstom India Ltd	India
Alstom T&D India Ltd. (formerly Areva T&D India)	India
Bharat Electronics Limited	India
Bharat Heavy Electricals Limited	India
Chennai Petroleum Corporation Ltd. AKA CPCL	India
Indian Oil Corporation Ltd.	India
Lanka IOC Limited	India
Mangalore Refinery and Petrochemicals Limited	India
Oil and Natural Gas Corp. Ltd.	India
Oil India Limited	India
Energy House Holding Co KSCC, The	Kuwait
Engen Botswana Ltd. AKA Engen	Malaysia
KLCCP Stapled Group AKA KLCC Property Holdings	Malaysia
Malaysia International Shipping Company AKA MISC Berhad	Malaysia
Malaysia Marine and Heavy Engineering Holdings Bhd	Malaysia
Petroliam Nasional Berhad AKA Petronas	Malaysia
Petronas Chemicals Group Berhad	Malaysia

ATTACHMENT 1

**Restricted Sudan Stocks**

<b>Company Name</b>	<b>Country of Origin</b>
Petronas Dagangan Berhad	Malaysia
Petronas Gas Berhad	Malaysia
Scomi Energy Services Bhd	Malaysia
Scomi Engineering Berhad	Malaysia
Scomi Group Berhad	Malaysia
Managem	Morocco
Societe Metallurgique D'imiter	Morocco
GAZ Auto Plant	Russia
GAZ Group	Russia
Pavlovsky Bus Plant	Russia
LS Industrial Systems	South Korea

Note: List contains parent companies and subsidiaries publicly traded.  
AKA means "Also Known As"

Source: EIRIS Conflict Risk Network

Effective Date: March 31, 2015

*Unless noted, the SBI does not have exposure in any of these companies*

ATTACHMENT 2

**Sudan Stocks Requiring Divestment**

<b>Company Name</b>	<b>Country of Origin</b>	<b>Divest 50 Percent By this Date</b>	<b>Divest 100 Percent By this date</b>
Andritz AG	Austria	September 30, 2014	March 31, 2015
Bharat Electronics Limited	India	September 30, 2014	March 31, 2015
Bharat Heavy Electricals	India	September 30, 2014	March 31, 2015
MAN SE	Germany	December 31, 2014	June 30, 2015
Poly Property Group	China	March 31, 2015	September 30, 2015
Volkswagen AG	Germany	June 30, 2015	December 31, 2015

Effective Date: March 31, 2015

**Historical Divestments**

<b>Company Name</b>	<b>Country of Origin</b>	<b>Divest 50 Percent By this Date</b>	<b>Divest 100 Percent By this date</b>
China Petroleum and Chemical Corporation AKA Sinopec Corp	China	April 30, 2008	October 31, 2008
PetroChina Company	China	April 30, 2008	October 31, 2008
Oil and Natural Gas Corp AKA ONGC	India	April 30, 2008	October 31, 2008
Malaysia International Shipping Company AKA MISC Berhad	Malaysia	April 30, 2008	October 31, 2008
Alstom	France	April 30, 2008	October 31, 2008
Dongfeng Motor Group Company Limited	China	March 31, 2011	September 30, 2011

**ATTACHMENT 3**

Security Identifiers for "Scrutinized" Stocks

The following security identifiers correlate with the First Quarter 2015 Sudan Company Report and are current as of February 13, 2015

ALL DATA IS FROM BLOOMBERG LP UNLESS OTHERWISE NOTED.

STOCKS ADDED SINCE LAST REPORT ARE HIGHLIGHTED

Company	Primary Company (Affiliate/Parent)	Exchange	Security Type	Security Name	Ticker	WPK Number	SEDDL	CUSIP	Sicpam	ISIN	COMMON	Gifts	Fundscope
ALSTOM INDIA LTD	ALSTOM	Natl India (XNSE)	Common Stock	ALSTOM PROJECTS INDIA LTD	ALST IB	A0EAYM	6230834 IN			INE878A01011			
ALSTOM INDIA LTD	ALSTOM	Natl India (XNSE)	Common Stock	ALSTOM PROJECTS INDIA LTD	ALST IN	A0EAYM	6230834 IN			INE878A01011			
ALSTOM INDIA LTD	ALSTOM	Natl India (XNSE)	Common Stock	ALSTOM PROJECTS INDIA LTD	ALST IS	A0EAYM	6230834 IN			INE878A01011			
ALSTOM SA	ALSTOM	Equilist (XECT)	Common Stock	ALSTOM	ALO BQ	A0F7BK	80DJ8Q5 FR			FR0010220475	022581074		
ALSTOM SA	ALSTOM	BATS Europe (BATE)	Common Stock	ALSTOM	ALO EB	A0F7BK	80DJ8Q5 FR			FR0010220475	022581074		
ALSTOM SA	ALSTOM	EN Paris (XPAR)	Common Stock	ALSTOM	ALO FP	A0F7BK	80DJ8Q5 FR			FR0010220475	022581074		
ALSTOM SA	ALSTOM	TOM MTF (TMX)	Common Stock	ALSTOM	ALO MT	A0F7BK	80DJ8Q5 FR			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Aquis Exchq (AQXE)	Common Stock	ALSTOM	ALO QX	A0F7BK	80DJ8Q5 FR			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Turquoise (TRGX)	Common Stock	ALSTOM	ALO TQ	A0F7BK	80DJ8Q5 FR			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Chi-X Alt TS (CHIX)	Common Stock	ALSTOM	ALSP IX	A0F7BK	80DJ8Q5 FR			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Frankfurt (XFRA)	Common Stock	ALSTOM	AOMD GB	A0F7BK	80G0412 DE			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Frankfurt (XFRA)	Common Stock	ALSTOM	AOMD GD	A0F7BK	80G0412 DE			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Frankfurt (XFRA)	Common Stock	ALSTOM	AOMD GE	A0F7BK	80G0412 DE			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Frankfurt (XFRA)	Common Stock	ALSTOM	AOMD GF	A0F7BK	80G0412 DE			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Frankfurt (XFRA)	Common Stock	ALSTOM	AOMD GH	A0F7BK	80G0412 DE			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Frankfurt (XFRA)	Common Stock	ALSTOM	AOMD GI	A0F7BK	80G0412 DE			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Frankfurt (XFRA)	Common Stock	ALSTOM	AOMD GM	A0F7BK	80G0412 DE			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Frankfurt (XFRA)	Common Stock	ALSTOM	AOMD GN	A0F7BK	80G0412 DE			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Frankfurt (XFRA)	Common Stock	ALSTOM	AOMD GR	A0F7BK	80G0412 DE			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Frankfurt (XFRA)	Common Stock	ALSTOM	AOMD GS	A0F7BK	80G0412 DE			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Frankfurt (XFRA)	Common Stock	ALSTOM	AOMD GT	A0F7BK	80G0412 DE			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Frankfurt (XFRA)	Common Stock	ALSTOM	AOMD QV	A0F7BK	80G0412 DE			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Quotix Exch (XQTX)	Common Stock	ALSTOM	AOMD QT	A0F7BK	80G0412 DE			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Tradegate (XGAT)	Common Stock	ALSTOM	AOMD TH	A0F7BK	80G0412 DE			FR0010220475	022581074		
ALSTOM SA	ALSTOM	OTC US (OOC)	Common Stock	ALSTOM	AOMF PQ	A0F7BK	80GLY93 US			FR0010220475	022581074	F0259M475	
ALSTOM SA	ALSTOM	OTC US (OOC)	Common Stock	ALSTOM	AOMF UJ	A0F7BK	80GLY93 US			FR0010220475	022581074	F0259M475	
ALSTOM SA	ALSTOM	OTC US (OOC)	Common Stock	ALSTOM	AOMF UV	A0F7BK	80GLY93 US			FR0010220475	022581074	F0259M475	
ALSTOM SA	ALSTOM	Euro Comp (XLON)	Common Stock	ALSTOM	ALO EU	A0F7BK	80YL7Q7 GB			FR0010220475	022581074		
ALSTOM SA	ALSTOM	LSE EuropeQS (XLON)	Common Stock	ALSTOM	ALO LI	A0F7BK	80YL7Q7 GB			FR0010220475	022581074		
ALSTOM SA	ALSTOM	LSE EuropeQS (XLON)	Common Stock	ALSTOM	ALO LO	A0F7BK	80YL7Q7 GB			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Euro OTC (XLON)	Common Stock	ALSTOM	ALO XB	A0F7BK	80YL7Q7 GB			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Euro OTC (XLON)	Common Stock	ALSTOM	ALO XD	A0F7BK	80YL7Q7 GB			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Euro OTC (XLON)	Common Stock	ALSTOM	ALO XE	A0F7BK	80YL7Q7 GB			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Euro OTC (XLON)	Common Stock	ALSTOM	ALO XO	A0F7BK	80YL7Q7 GB			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Euro OTC (XLON)	Common Stock	ALSTOM	ALO XS	A0F7BK	80YL7Q7 GB			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Euro OTC (XLON)	Common Stock	ALSTOM	ALO XV	A0F7BK	80YL7Q7 GB			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Euro TLX (ETLX)	Common Stock	ALSTOM	ALO TE	A0F7BK	80YL7Q7 GB			FR0010220475	022581074		
ALSTOM SA	ALSTOM	SIX Swiss Ex (XSWX)	Common Stock	ALSTOM	ALO SE	A0F7BK	80YL7Q7 GB			FR0010220475	022581074		
ALSTOM SA	ALSTOM	SIX Swiss Ex (XSWX)	Common Stock	ALSTOM	ALO SW	A0F7BK	80YL7Q7 GB			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Euro OTC (XLON)	Common Stock	ALSTOM	ALO XL	A0F7BK	80YL7Q7 GB			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Blockmatch (BLOX)	Common Stock	ALSTOM	ALOP B3	A0F7BK	80YL7Q7 GB			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Blockmatch (BLOX)	Common Stock	ALSTOM	ALOP L3	A0F7BK	80YL7Q7 GB			FR0010220475	022581074		
ALSTOM SA	ALSTOM	Blockmatch (BLOX)	Common Stock	ALSTOM	ALOP S2	A0F7BK	80YL7Q7 GB			FR0010220475	022581074		
ALSTOM SA	ALSTOM	OTC US (OOC)	GDR	ALSTOM	ALSMY PQ	A1CS4B	83DY42Z US	021244207		US0212442075	081982660		
ALSTOM SA	ALSTOM	OTC US (OOC)	GDR	ALSTOM	ALSMY UJ	A1CS4B	83DY42Z US	021244207		US0212442075	081982660		
ALSTOM SA	ALSTOM	OTC US (OOC)	GDR	ALSTOM	ALSMY UV	A1CS4B	83DY42Z US	021244207		US0212442075	081982660		
ALSTOM T&D INDIA LTD	ALSTOM	Natl India (XNSE)	Common Stock	AREVA T&D INDIA LTD	ATD IB	A0R8B7	6139890 IN			INE200A01026			
ALSTOM T&D INDIA LTD	ALSTOM	Natl India (XNSE)	Common Stock	AREVA T&D INDIA LTD	ATD IN	A0R8B7	6139890 IN			INE200A01026			
ALSTOM T&D INDIA LTD	ALSTOM	Natl India (XNSE)	Common Stock	AREVA T&D INDIA LTD	ATD IS	A0R8B7	6139890 IN			INE200A01026			
ANDRITZ AG	ANDRITZ GROUP	Vieima (WBVAH)	Common Stock	ANDRITZ AG	ANDR AV	632305	81VVVF68 AT			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	BATS Europe (BATE)	Common Stock	ANDRITZ AG	ANDR EB	632305	81VVVF68 AT			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Chi-X Europe (CHIX)	Common Stock	ANDRITZ AG	ANDR IX	632305	81VVVF68 AT			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Turquoise (TRGX)	Common Stock	ANDRITZ AG	ANDR TQ	632305	81X9FH2 DE			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Xetra (XETR)	Common Stock	ANDRITZ AG	AZZ GB	632305	81X9FH2 DE			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Xetra (XETR)	Common Stock	ANDRITZ AG	AZZ GD	632305	81X9FH2 DE			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Xetra (XETR)	Common Stock	ANDRITZ AG	AZZ GF	632305	81X9FH2 DE			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Xetra (XETR)	Common Stock	ANDRITZ AG	AZZ GH	632305	81X9FH2 DE			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Xetra (XETR)	Common Stock	ANDRITZ AG	AZZ GM	632305	81X9FH2 DE			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Xetra (XETR)	Common Stock	ANDRITZ AG	AZZ GR	632305	81X9FH2 DE			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Xetra (XETR)	Common Stock	ANDRITZ AG	AZZ GY	632305	81X9FH2 DE			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Xetra (XETR)	Common Stock	ANDRITZ AG	AZZ QT	632305	81X9FH2 DE			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Quotix Exch (XQTX)	Common Stock	ANDRITZ AG	AZZ TH	632305	81X9FH2 DE			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Tradegate (XGAT)	Common Stock	ANDRITZ AG	AZZ TH	632305	81X9FH2 DE			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	OTC US (OOC)	Common Stock	ANDRITZ AG	ADRZF US	632305	81XBL36 US			AT0000730007	013042748	A1123105	
ANDRITZ AG	ANDRITZ GROUP	OTC US (OOC)	Common Stock	ANDRITZ AG	ADRZF UV	632305	81XBL36 US			AT0000730007	013042748	A1123105	
ANDRITZ AG	ANDRITZ GROUP	Euro Comp (XLON)	Common Stock	ANDRITZ AG	ANDR EU	632305	828F3F6 GB			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	LSE EuropeQS (XLON)	Common Stock	ANDRITZ AG	ANDR LI	632305	828F3F6 GB			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	LSE EuropeQS (XLON)	Common Stock	ANDRITZ AG	ANDR LO	632305	828F3F6 GB			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Euro OTC (XLON)	Common Stock	ANDRITZ AG	ANDR YA	632305	828F3F6 GB			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Euro OTC (XLON)	Common Stock	ANDRITZ AG	ANDR XB	632305	828F3F6 GB			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Euro OTC (XLON)	Common Stock	ANDRITZ AG	ANDR XD	632305	828F3F6 GB			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Euro OTC (XLON)	Common Stock	ANDRITZ AG	ANDR XL	632305	828F3F6 GB			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Euro OTC (XLON)	Common Stock	ANDRITZ AG	ANDR XV	632305	828F3F6 GB			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Euro OTC (XLON)	Common Stock	ANDRITZ AG	ANDR BW	632305	828F3F6 GB			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	BX Worldcaps (XB RN)	Common Stock	ANDRITZ AG	ANDR SE	632305	BHZL8M4 CH			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	SIX Swiss Ex (XSWX)	Common Stock	ANDRITZ AG	ANDR SW	632305	BHZL8M4 CH			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	BX Worldcaps (XB RN)	Common Stock	ANDRITZ AG	ANDR XS	632305	BHZL8M4 CH			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Euro OTC (XLON)	Common Stock	ANDRITZ AG	ANDR XS	632305	BHZL8M4 CH			AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	Blockmatch (BLOX)	Common Stock	ANDRITZ AG	ANDRV B3	632305				AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	UBS MTF (XUBS)	Common Stock	ANDRITZ AG	ANDRV S2	632305				AT0000730007	013042748		
ANDRITZ AG	ANDRITZ GROUP	OTC US (OOC)	ADR	ANDRITZ AG-UNSPON ADR	ADRZY PQ		83DY4P2 US	034522102		US0345221024			
ANDRITZ AG	ANDRITZ GROUP	OTC US (OOC)	ADR	ANDRITZ AG-UNSPON ADR	ADRZY UV		83DY4P2 US	034522102		US0345221024			
ANDRITZ AG	ANDRITZ GROUP	OTC US (OOC)	ADR	ANDRITZ AG-UNSPON ADR	ADRZY UV		83DY4P2 US	034522102		US0345221024			
ASEK COMPANY FOR MINING (ASCOM) aka ASEK COMPANY FOR MINING	ASEK COMPANY FOR MINING (ASCOM) aka ASEK COMPANY FOR MINING	EGX (KCAJ)	Common Stock	ASEK CO FOR MINING	ASCM EY	A0Q							

Company	Primary Company (Affiliate/Parent)	Exchange	Security Type	Security Name	Tricker	WRK Number	SEQOL	CUSIP	Sicovam	ISIN	COMMON	CINS	Fondscode
BHARAT ELECTRONICS LIMITED	BHARAT ELECTRONICS LIMITED	Natl India (XNSE)	Common Stock	BHARAT ELECTRONICS LIMITED	BHE IS	120304	6139715 IN			INE263A01016			
BHARAT HEAVY ELECTRICALS	BHARAT HEAVY ELECTRICALS LIMITED	Natl India (XNSE)	Common Stock	BHARAT HEAVY ELECTRICALS	BHEL IB	A1JLKM	B6SNRV2 IN			INE257A01026			
BHARAT HEAVY ELECTRICALS	BHARAT HEAVY ELECTRICALS LIMITED	Natl India (XNSE)	Common Stock	BHARAT HEAVY ELECTRICALS	BHEL IN	A1JLKM	B6SNRV2 IN			INE257A01026			
BHARAT HEAVY ELECTRICALS	BHARAT HEAVY ELECTRICALS LIMITED	Natl India (XNSE)	Common Stock	BHARAT HEAVY ELECTRICALS	BHEL IS	A1JLKM	B6SNRV2 IN			INE257A01026			
BHARAT HEAVY ELECTRICALS	BHARAT HEAVY ELECTRICALS LIMITED	Natl India (XNSE)	Second Lending	BHARAT HEAVY ELECTRICALS-SLB	BHEL/US IN								
BHARAT HEAVY ELECTRICALS	BHARAT HEAVY ELECTRICALS LIMITED	Natl India (XNSE)	Second Lending	BHARAT HEAVY ELECTRICALS-SLB	BHEL/US IS								
CHINA GEZHOUBA GROUP COMPANY LTD	CHINA GEZHOUBA GROUP COMPANY LTD	Shanghai (XSHG)	Common Stock	CHINA GEZHOUBA GROUP CO LT-A	600068 CG	A0M31Z	6377214 CN			CNE000000QF1			
CHINA GEZHOUBA GROUP COMPANY LTD	CHINA GEZHOUBA GROUP COMPANY LTD	Shanghai (XSHG)	Common Stock	CHINA GEZHOUBA GROUP CO LT-A	600068 CH	A0M31Z	6377214 CN			CNE000000QF1			
CHINA GEZHOUBA GROUP COMPANY LTD	CHINA GEZHOUBA GROUP COMPANY LTD	Nth SSE-SEHK (XSSC)	Common Stock	CHINA GEZHOUBA GROUP CO LT-A	600068 C1	A0M31Z	BP3R693 CN			CNE000000QF1			
POWER CONSTRUCTION CORPORATION OF CHINA LTD	CHINA HYDRAULIC AND HYDROELECTRIC CONSTRUCTION GROUP (SINOHYDRO)	Shanghai (XSHG)	Common Stock	SINOHYDRO GROUP LTD-A	601669 CG	A1JNL6	B4TH690 CN			CNE1000017G1			
POWER CONSTRUCTION CORPORATION OF CHINA LTD	CHINA HYDRAULIC AND HYDROELECTRIC CONSTRUCTION GROUP (SINOHYDRO)	Shanghai (XSHG)	Common Stock	SINOHYDRO GROUP LTD-A	601669 CH	A1JNL6	B4TH690 CN			CNE1000017G1			
POWER CONSTRUCTION CORPORATION OF CHINA LTD	CHINA HYDRAULIC AND HYDROELECTRIC CONSTRUCTION GROUP (SINOHYDRO)	Nth SSE-SEHK (XSSC)	Common Stock	SINOHYDRO GROUP LTD-A	601669 C1	A0M31Z	BP3R4M2 CN			CNE1000017G1			
CHINA MACHINERY ENGINEERING CORPORATION	CHINA MACHINERY ENGINEERING CORPORATION	Hong Kong (XHKG)	Common Stock	CHINA MACHINERY ENGINEERING-H	1829 HK	A1KAFT	B94V58 HK			CNE100001NP4	086987414		
CHINA MACHINERY ENGINEERING CORPORATION	CHINA MACHINERY ENGINEERING CORPORATION	Frankfurt (XFRA)	Common Stock	CHINA MACHINERY ENGINEERING-H	C3M GF	A1KAFT				CNE100001NP4	086987414		
CHINA MACHINERY ENGINEERING CORPORATION	CHINA MACHINERY ENGINEERING CORPORATION	Frankfurt (XFRA)	Common Stock	CHINA MACHINERY ENGINEERING-H	C3M GR	A1KAFT				CNE100001NP4	086987414		
DAQING HUAKE GROUP CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Shenzhen (XSHE)	Common Stock	DAQING HUAKE GROUP CO-A	000985 CH	A0M4C2	6277949 CN			CNE000001402			
DAQING HUAKE GROUP CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Shenzhen (XSHE)	Common Stock	DAQING HUAKE GROUP CO-A	000985 CS	A0M4C2	6277949 CN			CNE000001402			
JINAN DIESEL ENGINE CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Shenzhen (XSHE)	Common Stock	JINAN DIESEL ENGINE CO-A	000617 CH	A0M3ZT	6486109 CN			CNE000000MS3			
JINAN DIESEL ENGINE CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Shenzhen (XSHE)	Common Stock	JINAN DIESEL ENGINE CO-A	000617 CS	A0M3ZT	6486109 CN			CNE000000MS3			
KUNLUN ENERGY CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	Common Stock	KUNLUN ENERGY CO LTD	CTJ1 GB	A1CV3E	5387753 DE	952131		BMG5320C1082	050092003		
KUNLUN ENERGY CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	Common Stock	KUNLUN ENERGY CO LTD	CTJ1 GD	A1CV3E	5387753 DE	952131		BMG5320C1082	050092003		
KUNLUN ENERGY CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	Common Stock	KUNLUN ENERGY CO LTD	CTJ1 GF	A1CV3E	5387753 DE	952131		BMG5320C1082	050092003		
KUNLUN ENERGY CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	Common Stock	KUNLUN ENERGY CO LTD	CTJ1 GM	A1CV3E	5387753 DE	952131		BMG5320C1082	050092003		
KUNLUN ENERGY CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	Common Stock	KUNLUN ENERGY CO LTD	CTJ1 GR	A1CV3E	5387753 DE	952131		BMG5320C1082	050092003		
KUNLUN ENERGY CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	Common Stock	KUNLUN ENERGY CO LTD	CTJ1 GS	A1CV3E	5387753 DE	952131		BMG5320C1082	050092003		
KUNLUN ENERGY CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Tradegate (XGAT)	Common Stock	KUNLUN ENERGY CO LTD	CTJ1 TH	A1CV3E	5387753 DE	952131		BMG5320C1082	050092003		
KUNLUN ENERGY CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Hong Kong (XHKG)	Common Stock	KUNLUN ENERGY CO LTD	135 HK	A1CV3E	6340078 HK	952131		BMG5320C1082	050092003		
KUNLUN ENERGY CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	OTC Exchange (OOTC)	Common Stock	KUNLUN ENERGY CO LTD	KUNUF US	A1CV3E	B01DDZ3 US	952131		BMG5320C1082	050092003		
KUNLUN ENERGY CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	OTC Exchange (OOTC)	Common Stock	KUNLUN ENERGY CO LTD	KUNUF UV	A1CV3E	B01DDZ3 US	952131		BMG5320C1082	050092003		
KUNLUN ENERGY CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Sth SSE-SEHK (SHSC)	Common Stock	KUNLUN ENERGY CO LTD	135 H1	A1CV3E	BP3RW39 HK	952131		BMG5320C1082	050092003		
KUNLUN ENERGY CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	OTC Exchange (OOTC)	ADR	CNPC HONG KONG LTD-UNSP	KLYCY PQ	A1J7V7	B3L2812 US	50126A101		US50126A1016			
KUNLUN ENERGY CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	OTC Exchange (OOTC)	ADR	CNPC HONG KONG LTD-UNSP	KLYCY US	A1J7V7	B3L2812 US	50126A101		US50126A1016			
KUNLUN ENERGY CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	OTC Exchange (OOTC)	ADR	CNPC HONG KONG LTD-UNSP	KLYCY UV	A1J7V7	B3L2812 US	50126A101		US50126A1016			
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	Common Stock	PETROCHINA CO LTD-H	PC6 GB	A0M4YQ	5939507 DE			CNE1000003W8	011014674		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	Common Stock	PETROCHINA CO LTD-H	PC6 GD	A0M4YQ	5939507 DE			CNE1000003W8	011014674		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	Common Stock	PETROCHINA CO LTD-H	PC6 GF	A0M4YQ	5939507 DE			CNE1000003W8	011014674		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	Common Stock	PETROCHINA CO LTD-H	PC6 GH	A0M4YQ	5939507 DE			CNE1000003W8	011014674		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	Common Stock	PETROCHINA CO LTD-H	PC6 GM	A0M4YQ	5939507 DE			CNE1000003W8	011014674		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	Common Stock	PETROCHINA CO LTD-H	PC6 GR	A0M4YQ	5939507 DE			CNE1000003W8	011014674		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	Common Stock	PETROCHINA CO LTD-H	PC6 GS	A0M4YQ	5939507 DE			CNE1000003W8	011014674		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	Common Stock	PETROCHINA CO LTD-H	PC6 GY	A0M4YQ	5939507 DE			CNE1000003W8	011014674		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Quotrix Exch (XQTX)	Common Stock	PETROCHINA CO LTD-H	PC6 QT	A0M4YQ	5939507 DE			CNE1000003W8	011014674		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	Common Stock	PETROCHINA CO LTD-H	PC6 TH	A0M4YQ	5939507 DE			CNE1000003W8	011014674		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Hong Kong (XHKG)	Common Stock	PETROCHINA CO LTD-H	857 HK	A0M4YQ	6226576 HK			CNE1000003W8	011014674		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	OTC US (OOTC)	Common Stock	PETROCHINA CO LTD-H	PCCYF US	A0M4YQ	B01DNL9 US			CNE1000003W8	011014674	Y6883Q104	
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	OTC US (OOTC)	Common Stock	PETROCHINA CO LTD-H	PCCYF UV	A0M4YQ	B01DNL9 US			CNE1000003W8	011014674	Y6883Q104	
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Sth SSE-SEHK (SHSC)	Common Stock	PETROCHINA CO LTD-H	857 H1	A0M4YQ	BP3RWW8 HK			CNE1000003W8	011014674		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Shanghai (XSHG)	Common Stock	PETROCHINA CO LTD-A	601857 CG	A0NANC	B28SLD9 CN			CNE1000007Q1	033421664		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Shanghai (XSHG)	Common Stock	PETROCHINA CO LTD-A	601857 CH	A0NANC	B28SLD9 CN			CNE1000007Q1	033421664		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Nth SSE-SEHK (XSSC)	Common Stock	PETROCHINA CO LTD-A	601857 C1	A0NANC	BP3R206 CN			CNE1000007Q1	033421664		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	New York (XNYS)	ADR	PETROCHINA CO LTD-ADR	PTR UB	936983	2568841 US	74646E100		US71646E1001	011511449		



Company	Primary Company (Affiliate/Parent)	Exchange	Security Type	Security Name	Ticker	WPK Number	SEDOL	CUSIP	Sicovam	ISIN	COMMON	CINS	Fundscode
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	New York (XNYS)	ADR	PETROCHINA CO LTD -ADR	PTR UD	936983	2568841 US	74646E100		US71646E1001	011511449		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	New York (XNYS)	ADR	PETROCHINA CO LTD -ADR	PTR UF	936983	2568841 US	74646E100		US71646E1001	011511449		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	New York (XNYS)	ADR	PETROCHINA CO LTD -ADR	PTR UN	936983	2568841 US	74646E100		US71646E1001	011511449		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	New York (XNYS)	ADR	PETROCHINA CO LTD -ADR	PTR UP	936983	2568841 US	74646E100		US71646E1001	011511449		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	New York (XNYS)	ADR	PETROCHINA CO LTD -ADR	PTR US	936983	2568841 US	74646E100		US71646E1001	011511449		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	New York (XNYS)	ADR	PETROCHINA CO LTD -ADR	PTR UT	936983	2568841 US	74646E100		US71646E1001	011511449		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	New York (XNYS)	ADR	PETROCHINA CO LTD -ADR	PTR UX	936983	2568841 US	74646E100		US71646E1001	011511449		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	New York (XNYS)	ADR	PETROCHINA CO LTD -ADR	PTR VJ	936983	2568841 US	74646E100		US71646E1001	011511449		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	New York (XNYS)	ADR	PETROCHINA CO LTD -ADR	PTR VK	936983	2568841 US	74646E100		US71646E1001	011511449		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	New York (XNYS)	ADR	PETROCHINA CO LTD -ADR	PTR VY	936983	2568841 US	74646E100		US71646E1001	011511449		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	ADR	PETROCHINA CO LTD -ADR	PC6A GB	936983	4633327 DE	71646E100		US71646E1001	011511449		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	ADR	PETROCHINA CO LTD -ADR	PC6A GF	936983	4633327 DE	71646E100		US71646E1001	011511449		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	ADR	PETROCHINA CO LTD -ADR	PC6A GM	936983	4633327 DE	71646E100		US71646E1001	011511449		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	ADR	PETROCHINA CO LTD -ADR	PC6A GR	936983	4633327 DE	71646E100		US71646E1001	011511449		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	ADR	PETROCHINA CO LTD -ADR	PC6A GS	936983	4633327 DE	71646E100		US71646E1001	011511449		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Frankfurt (XFRA)	ADR	PETROCHINA CO LTD -ADR	PC6A GY	936983	4633327 DE	71646E100		US71646E1001	011511449		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Singapore (XSES)	ADR	PETROCHINA CO LTD -ADR	PTR SP	936983	B3KTK63 SG			US71646E1001	011511449		
PETROCHINA CO LTD	CHINA NATIONAL PETROLEUM CORP aka CNPC	Tradegate (XGAT)	ADR	PETROCHINA CO LTD -ADR	PC6A TH	936983		74646E100		US71646E1001	011511449		
AKM INDUSTRIAL CO. LTD.	CHINA NORTH INDUSTRIES GROUP CORPORATION (CNGC/NORINCO)	Hong Kong (XHKG)	Common Stock	AKM INDUSTRIAL CO LTD	1639 HK	A0D86T	802J0J3 HK			HK8298013897	021553654		
AKM INDUSTRIAL CO. LTD.	CHINA NORTH INDUSTRIES GROUP CORPORATION (CNGC/NORINCO)	Berlin (XBBER)	Common Stock	AKM INDUSTRIAL CO LTD	AIQ GB	A0D86T	B06L0H3 DE			HK8298013897	021553654		
AKM INDUSTRIAL CO. LTD.	CHINA NORTH INDUSTRIES GROUP CORPORATION (CNGC/NORINCO)	Berlin (XBBER)	Common Stock	AKM INDUSTRIAL CO LTD	AIQ GR	A0D86T	B06L0H3 DE			HK8298013897	021553654		
AKM INDUSTRIAL CO. LTD.	NORINCO INTERNATIONAL COOPERATION LTD.	Shenzhen (XSHE)	Common Stock	NORINCO INTL COOPERATION -A	000065 CH	A0M35W	6112125 CN			CNE000000V29			
NORTH HUAJIN CHEMICAL INDUSTRIES CO LTD	CHINA NORTH INDUSTRIES GROUP CORPORATION (CNGC/NORINCO)	Shenzhen (XSHE)	Common Stock	NORINCO INTL COOPERATION -A	000065 CH	A0M35W	6112125 CN			CNE000000V29			
NORTH HUAJIN CHEMICAL INDUSTRIES CO LTD	CHINA NORTH INDUSTRIES GROUP CORPORATION (CNGC/NORINCO)	Shenzhen (XSHE)	Common Stock	NORTH HUAJIN CHEMICAL INDU-A	000059 CS	A0M30T	6796143 CN			CNE000000N99			
NORTH NAVIGATION CONTROL TECHNOLOGY CO. LTD.	CHINA NORTH INDUSTRIES GROUP CORPORATION (CNGC/NORINCO)	Shenzhen (XSHE)	Common Stock	NORTH NAVIGATION CONTROL T-A	600435 CG	A0M4L5	6649946 CN			CNE000001F88			
NORTH NAVIGATION CONTROL TECHNOLOGY CO. LTD.	CHINA NORTH INDUSTRIES GROUP CORPORATION (CNGC/NORINCO)	Shenzhen (XSHE)	Common Stock	NORTH NAVIGATION CONTROL T-A	600435 CH	A0M4L5	6649946 CN			CNE000001F88			
NORTH NAVIGATION CONTROL TECHNOLOGY CO. LTD.	CHINA NORTH INDUSTRIES GROUP CORPORATION (CNGC/NORINCO)	Nth SSE-SEHK (XSSC)	Common Stock	NORTH NAVIGATION CONTROL T-A	600435 C1	A0M4L5	BP3RB54 CA			CNE000001F88			
SICHUAN NITROCELL CO. LTD.	CHINA NORTH INDUSTRIES GROUP CORPORATION (CNGC/NORINCO)	Shenzhen (XSHE)	Common Stock	SICHUAN NITROCELL CO LTD-A	002246 CH	A0RPGJ	B39G5K4 CN			CNE100000BW7			
SICHUAN NITROCELL CO. LTD.	CHINA NORTH INDUSTRIES GROUP CORPORATION (CNGC/NORINCO)	Shenzhen (XSHE)	Common Stock	SICHUAN NITROCELL CO LTD-A	002246 CS	A0RPGJ	B39G5K4 CN			CNE100000BW7			
CHINA PETROLEUM & CHEMICAL CORP aka SINOPEC CORP	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Shanghai (XSHG)	Common Stock	CHINA PETROLEUM & CHEMICAL -A	600028 CH	A0M4G4	6373728 CN			CNE0000018G1			
CHINA PETROLEUM & CHEMICAL CORP aka SINOPEC CORP	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Hong Kong (XHKG)	Common Stock	CHINA PETROLEUM & CHEMICAL -H	386 HK	A0M4XN	6291819 HK			CNE1000002Q2	012150504		
CHINA PETROLEUM & CHEMICAL CORP aka SINOPEC CORP	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Frankfurt (XFRA)	Common Stock	CHINA PETROLEUM & CHEMICAL -H	CHU GB	A0M4XN	7027756 DE			CNE1000002Q2	012150504		
CHINA PETROLEUM & CHEMICAL CORP aka SINOPEC CORP	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Frankfurt (XFRA)	Common Stock	CHINA PETROLEUM & CHEMICAL -H	CHU GD	A0M4XN	7027756 DE			CNE1000002Q2	012150504		
CHINA PETROLEUM & CHEMICAL CORP aka SINOPEC CORP	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Frankfurt (XFRA)	Common Stock	CHINA PETROLEUM & CHEMICAL -H	CHU GF	A0M4XN	7027756 DE			CNE1000002Q2	012150504		
CHINA PETROLEUM & CHEMICAL CORP aka SINOPEC CORP	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Frankfurt (XFRA)	Common Stock	CHINA PETROLEUM & CHEMICAL -H	CHU GH	A0M4XN	7027756 DE			CNE1000002Q2	012150504		
CHINA PETROLEUM & CHEMICAL CORP aka SINOPEC CORP	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Frankfurt (XFRA)	Common Stock	CHINA PETROLEUM & CHEMICAL -H	CHU GM	A0M4XN	7027756 DE			CNE1000002Q2	012150504		
CHINA PETROLEUM & CHEMICAL CORP aka SINOPEC CORP	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Frankfurt (XFRA)	Common Stock	CHINA PETROLEUM & CHEMICAL -H	CHU GR	A0M4XN	7027756 DE			CNE1000002Q2	012150504		
CHINA PETROLEUM & CHEMICAL CORP aka SINOPEC CORP	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Frankfurt (XFRA)	Common Stock	CHINA PETROLEUM & CHEMICAL -H	CHU GS	A0M4XN	7027756 DE			CNE1000002Q2	012150504		
CHINA PETROLEUM & CHEMICAL CORP aka SINOPEC CORP	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Frankfurt (XFRA)	Common Stock	CHINA PETROLEUM & CHEMICAL -H	CHU GY	A0M4XN	7027756 DE			CNE1000002Q2	012150504		
CHINA PETROLEUM & CHEMICAL CORP aka SINOPEC CORP	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Quotrix Exch (XQTX)	Common Stock	CHINA PETROLEUM & CHEMICAL -H	CHU QT	A0M4XN	7027756 DE			CNE1000002Q2	012150504		
CHINA PETROLEUM & CHEMICAL CORP aka SINOPEC CORP	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	OTC US (OOTC)	Common Stock	CHINA PETROLEUM & CHEMICAL -H	SNPMF PQ	A0M4XN	B01XKR4 US			CNE1000002Q2	012150504	Y15010104	
CHINA PETROLEUM & CHEMICAL CORP aka SINOPEC CORP	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	OTC US (OOTC)	Common Stock	CHINA PETROLEUM & CHEMICAL -H	SNPMF UV	A0M4XN	B01XKR4 US			CNE1000002Q2	012150504	Y15010104	
CHINA PETROLEUM & CHEMICAL CORP aka SINOPEC CORP	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	OTC US (OOTC)	Common Stock	CHINA PETROLEUM & CHEMICAL -H	SNPMF US	A0M4XN	B01XKR4 US			CNE1000002Q2	012150504	Y15010104	
CHINA PETROLEUM & CHEMICAL CORP aka SINOPEC CORP	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Sth SSE-SEHK (SHSC)	Common Stock	CHINA PETROLEUM & CHEMICAL -H	386 H1	A0M4XN	BP3R5M0 HK			CNE1000002Q2	012150504	Y15010104	
CHINA PETROLEUM & CHEMICAL CORP aka SINOPEC CORP	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Shanghai (XSHG)	Common Stock	CHINA PETROLEUM & CHEMICAL -A	600028 CG	A0M4G4	6373728 CN			CNE1000018G1			
CHINA PETROLEUM & CHEMICAL CORP aka SINOPEC CORP	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Nth SSE-SEHK (XSSC)	Common Stock	CHINA PETROLEUM & CHEMICAL -A	600028 C1	A0M4G4	BP3R240 CN			CNE1000018G1			
CHINA PETROLEUM & CHEMICAL CORP aka SINOPEC CORP	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	New York (XNYS)	ADR	CHINA PETROLEUM & CHEMICAL -ADR	SNP UB	578971	2639189 US	16941R108		US16941R1086	011899374		
CHINA PETROLEUM & CHEMICAL CORP aka SINOPEC CORP	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	New York (XNYS)	ADR	CHINA PETROLEUM & CHEMICAL -ADR	SNP UD	578971	2639189 US	16941R108		US16941R1086	011899374		



Company	Primary Company (Affiliate/Parent)	Exchange	Security Type	Security Name	Ticker	WPK Number	SEDOL	CUSIP	Sic04am	ISIN	CDM10N	CNS	Fonds code
SINOPEC SHANGHAI PETROCHEMICALS LTD	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	New York (XNYS)	ADR	SINOPEC SHANGHAI-SPONS ADR	SHI UP	887169	2800059 US		908289	US82935M1099	012248750		
SINOPEC SHANGHAI PETROCHEMICALS LTD	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	New York (XNYS)	ADR	SINOPEC SHANGHAI-SPONS ADR	SHI UT	887169	2800059 US		908289	US82935M1099	012248750		
SINOPEC SHANGHAI PETROCHEMICALS LTD	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	New York (XNYS)	ADR	SINOPEC SHANGHAI-SPONS ADR	SHI UX	887169	2800059 US		908289	US82935M1099	012248750		
SINOPEC SHANGHAI PETROCHEMICALS LTD	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	New York (XNYS)	ADR	SINOPEC SHANGHAI-SPONS ADR	SHI VJ	887169	2800059 US		908289	US82935M1099	012248750		
SINOPEC SHANGHAI PETROCHEMICALS LTD	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	New York (XNYS)	ADR	SINOPEC SHANGHAI-SPONS ADR	SHI VK	887169	2800059 US		908289	US82935M1099	012248750		
SINOPEC SHANGHAI PETROCHEMICALS LTD	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	New York (XNYS)	ADR	SINOPEC SHANGHAI-SPONS ADR	SHI VY	887169	2800059 US		908289	US82935M1099	012248750		
SINOPEC SHANGHAI PETROCHEMICALS LTD	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Frankfurt (XFRA)	ADR	SINOPEC SHANGHAI-SPONS ADR	SHI GB	887169	5734638 DE	82935M109	908289	US82935M1099	012248750		
SINOPEC SHANGHAI PETROCHEMICALS LTD	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Frankfurt (XFRA)	ADR	SINOPEC SHANGHAI-SPONS ADR	SHI GF	887169	5734638 DE	82935M109	908289	US82935M1099	012248750		
SINOPEC SHANGHAI PETROCHEMICALS LTD	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Frankfurt (XFRA)	ADR	SINOPEC SHANGHAI-SPONS ADR	SHI GM	887169	5734638 DE	82935M109	908289	US82935M1099	012248750		
SINOPEC SHANGHAI PETROCHEMICALS LTD	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Frankfurt (XFRA)	ADR	SINOPEC SHANGHAI-SPONS ADR	SHI GR	887169	5734638 DE	82935M109	908289	US82935M1099	012248750		
SINOPEC SHANGHAI PETROCHEMICALS LTD	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Frankfurt (XFRA)	ADR	SINOPEC SHANGHAI-SPONS ADR	SHI GS	887169	5734638 DE	82935M109	908289	US82935M1099	012248750		
SINOPEC SHANGHAI PETROCHEMICALS LTD	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Singapore (XSES)	ADR	SINOPEC SHANGHAI-SPONS ADR	SHI SP	887169	B3MNGN2	82935M109	908289	US82935M1099	012248750		
SINOPEC SHANGHAI PETROCHEMICALS LTD	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	New York (XNYS)	ADR	SINOPEC SHANGHAI-SPONS ADR	SHI US	887169	2800059 US		908289	US82935M1099	012248750		
SINOPEC YIZHENG CHEMICAL FIBRE CO LTD	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Shanghai (XSHG)	Common Stock	SINOPEC YIZHENG CHEMICAL -A	600871 CG	A0M3V6	6986740			CNE000000H53			
SINOPEC YIZHENG CHEMICAL FIBRE CO LTD	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Shanghai (XSHG)	Common Stock	SINOPEC YIZHENG CHEMICAL -A	600871 CH	A0M3V6	6986740			CNE000000H53			
SINOPEC YIZHENG CHEMICAL FIBRE CO LTD	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	Hong Kong (XHKH)	Common Stock	SINOPEC YIZHENG CHEMICAL-H	1033 HK	A0M4Y6	6984669 HK		917709	CNE1000004D6	008069662		
SINOPEC YIZHENG CHEMICAL FIBRE CO LTD	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	OTC US (OOTC)	Common Stock	SINOPEC YIZHENG CHEMICAL-H	YZCFF US	A0M4Y6	801XVL5 US			CNE1000004D6	008069662		
SINOPEC YIZHENG CHEMICAL FIBRE CO LTD	CHINA PETROCHEMICAL CORP aka SINOPEC GROUP	OTC US (OOTC)	Common Stock	SINOPEC YIZHENG CHEMICAL-H	YZCFF UV	A0M4Y6	801XVL5 US			CNE1000004D6	008069662		
POLY PROPERTY GROUP CO LTD	CHINA POLY GROUP CORPORATION	Hong Kong (XHKH)	Common Stock	POLY PROPERTY GROUP CO LTD	119 HK	885546	6220987 HK			HK0119000674	004580702		
POLY PROPERTY GROUP CO LTD	CHINA POLY GROUP CORPORATION	Frankfurt (XFRA)	Common Stock	POLY PROPERTY GROUP CO LTD	CMJ GB	885546	B1HJJS7 DE			HK0119000674	004580702		
POLY PROPERTY GROUP CO LTD	CHINA POLY GROUP CORPORATION	Frankfurt (XFRA)	Common Stock	POLY PROPERTY GROUP CO LTD	CMJ GF	885546	B1HJJS7 DE			HK0119000674	004580702		
POLY PROPERTY GROUP CO LTD	CHINA POLY GROUP CORPORATION	Frankfurt (XFRA)	Common Stock	POLY PROPERTY GROUP CO LTD	CMJ GR	885546	B1HJJS7 DE			HK0119000674	004580702		
POLY PROPERTY GROUP CO LTD	CHINA POLY GROUP CORPORATION	Frankfurt (XFRA)	Common Stock	POLY PROPERTY GROUP CO LTD	CMJ GS	885546	B1HJJS7 DE			HK0119000674	004580702		
POLY PROPERTY GROUP CO LTD	CHINA POLY GROUP CORPORATION	OTC US (OOTC)	Common Stock	POLY PROPERTY GROUP CO LTD	PHKIF US	885546	B23CST1 US			HK0119000674	004580702	Y7064G105	
POLY PROPERTY GROUP CO LTD	CHINA POLY GROUP CORPORATION	Sh SSE-SEHK (SHSC)	Common Stock	POLY PROPERTY GROUP CO LTD	119 H1	885546	BP3RQJ3 HK			HK0119000674	004580702		
POLY PROPERTY GROUP CO LTD	CHINA POLY GROUP CORPORATION	OTC US (OOTC)	Receipt	POLY PROPERTY GROUP CO LTD	PHKIV PQ		BJTXRN4 US			US7316541090			
POLY PROPERTY GROUP CO LTD	CHINA POLY GROUP CORPORATION	OTC US (OOTC)	Receipt	POLY PROPERTY GROUP CO LTD	PHKIV US		BJTXRN4 US			US7316541090			
DONGFENG MOTOR GROUP COMPANY LIMITED	DONGFENG MOTOR GROUP COMPANY LIMITED	OTC US (OOTC)	Common Stock	DONGFENG MOTOR GRP CO LTD-H	DNFGF PQ	A0M4XY	B0XZY65 US			CNE 100000312	023857456	Y21042109	
DONGFENG MOTOR GROUP COMPANY LIMITED	DONGFENG MOTOR GROUP COMPANY LIMITED	OTC US (OOTC)	Common Stock	DONGFENG MOTOR GRP CO LTD-H	DNFGF UV	A0M4XY	B0XZY65 US			CNE 100000312	023857456	Y21042109	
DONGFENG MOTOR GROUP COMPANY LIMITED	DONGFENG MOTOR GROUP COMPANY LIMITED	Hong Kong (XHKH)	Common Stock	DONGFENG MOTOR GRP CO LTD-H	489 HK	A0M4XY	B0PH5N3 HK			CNE100000312	023857456		
DONGFENG MOTOR GROUP COMPANY LIMITED	DONGFENG MOTOR GROUP COMPANY LIMITED	Frankfurt (XFRA)	Common Stock	DONGFENG MOTOR GRP CO LTD-H	D4D GB	A0M4XY	B0TB866 DE			CNE100000312	023857456		
DONGFENG MOTOR GROUP COMPANY LIMITED	DONGFENG MOTOR GROUP COMPANY LIMITED	Frankfurt (XFRA)	Common Stock	DONGFENG MOTOR GRP CO LTD-H	D4D GF	A0M4XY	B0TB866 DE			CNE100000312	023857456		
DONGFENG MOTOR GROUP COMPANY LIMITED	DONGFENG MOTOR GROUP COMPANY LIMITED	Frankfurt (XFRA)	Common Stock	DONGFENG MOTOR GRP CO LTD-H	D4D GM	A0M4XY	B0TB866 DE			CNE100000312	023857456		
DONGFENG MOTOR GROUP COMPANY LIMITED	DONGFENG MOTOR GROUP COMPANY LIMITED	Frankfurt (XFRA)	Common Stock	DONGFENG MOTOR GRP CO LTD-H	D4D GR	A0M4XY	B0TB866 DE			CNE100000312	023857456		
DONGFENG MOTOR GROUP COMPANY LIMITED	DONGFENG MOTOR GROUP COMPANY LIMITED	Frankfurt (XFRA)	Common Stock	DONGFENG MOTOR GRP CO LTD-H	D4D GS	A0M4XY	B0TB866 DE			CNE100000312	023857456		
DONGFENG MOTOR GROUP COMPANY LIMITED	DONGFENG MOTOR GROUP COMPANY LIMITED	Frankfurt (XFRA)	Common Stock	DONGFENG MOTOR GRP CO LTD-H	D4D GY	A0M4XY	B0TB866 DE			CNE100000312	023857456		
DONGFENG MOTOR GROUP COMPANY LIMITED	DONGFENG MOTOR GROUP COMPANY LIMITED	Quotrix Exch (XQTX)	Common Stock	DONGFENG MOTOR GRP CO LTD-H	D4D QT	A0M4XY	B0TB866 DE			CNE100000312	023857456		
DONGFENG MOTOR GROUP COMPANY LIMITED	DONGFENG MOTOR GROUP COMPANY LIMITED	OTC US (OOTC)	Common Stock	DONGFENG MOTOR GRP CO LTD-H	DNFGF US	A0M4XY	B0XZY65 US			CNE100000312	023857456	Y21042109	
DONGFENG MOTOR GROUP COMPANY LIMITED	DONGFENG MOTOR GROUP COMPANY LIMITED	Hong Kong (XHKH)	Common Stock	DONGFENG MOTOR GRP CO LTD-H	489 H1	A0M4XY	BP3RTP0 HK			CNE100000312	023857456		
DONGFENG MOTOR GROUP COMPANY LIMITED	DONGFENG MOTOR GROUP COMPANY LIMITED	OTC US (OOTC)	Common Stock	DONGFENG MOTOR GRP CO LTD-H	DNFGY PQ		B3SQPT4 US	257738203		US2577382037			
DONGFENG MOTOR GROUP COMPANY LIMITED	DONGFENG MOTOR GROUP COMPANY LIMITED	OTC US (OOTC)	ADR	DONGFENG MOTOR GRP-H-UNS	DNFGY US		B3SQPT4 US	257738203		US2577382037			
DONGFENG MOTOR GROUP COMPANY LIMITED	DONGFENG MOTOR GROUP COMPANY LIMITED	OTC US (OOTC)	Common Stock	DONGFENG MOTOR GRP CO LTD-H	DNFGY UV		B3SQPT4 US	257738203		US2577382037			
EGYPT KUWAIT HOLDING CO	EGYPT KUWAIT HOLDING CO	Kuwait (XKUW)	Common Stock	EGYPT KUWAIT HOLDING CO SAE	EKHOLDIN KK	A0H1G7	B0S8H15 KW			EG69082C013			
EGYPT KUWAIT HOLDING CO	EGYPT KUWAIT HOLDING CO	Cairo (XCAI)	Common Stock	EGYPT KUWAIT HOLDING CO SAE	EKHO EC	A0H1G7	B0QMD00 EG			EG69082C013			
EGYPT KUWAIT HOLDING CO	EGYPT KUWAIT HOLDING CO	Cairo (XCAI)	Common Stock	EGYPT KUWAIT HOLDING CO SAE	EKHO EY	A0H1G7	B0QMD00 EG			EG69082C013			
ENERGY HOUSE HOLDING CO KSCC/THE	ENERGY HOLDING CO KSCC/THE	Kuwait (XKUW)	Common Stock	ENERGY HOLDING CO KSCC/THE	ENERGYH KK	A0KD4C	B13BW99 KW			KW0EQ0501801			
GAZ AUTO PLANT	GAZ GROUP	MICEX Main (MISX)	Common Stock	GAZ-CLS	GAZA RM	903426	B5BKBJ9 RU	950579		RU0009034268	034991693		
GAZ AUTO PLANT	GAZ GROUP	MICEX Main (MISX)	Common Stock	GAZ-CLS	GAZA RX	903426	B5BKBJ9 RU	950579		RU0009034268	034991693		
GAZ AUTO PLANT	GAZ GROUP	MICEX Main (MISX)	Preference	GAZ-CLS-PFD	GAZAP RM	910283	B5BKC29 RU			RU0009102834			
GAZ AUTO PLANT	GAZ GROUP	MICEX Main (MISX)	Preference	GAZ-CLS-PFD	GAZAP RX	910283	B5BKC29 RU			RU0009102834			
PAVLOVSKY BUS PLANT	GAZ GROUP	MICEX Main (MISX)	Common Stock	PAVLOVSKY BUS-CLS	PAZA RM	908324	B57MPC4 RU			RU0009083240			
PAVLOVSKY BUS PLANT	GAZ GROUP	MICEX Main (MISX)	Common Stock	PAVLOVSKY BUS-CLS	PAZA RX	908324	B57MPC4 RU			RU0009083240			
HARBIN ELECTRIC CO LTD	HARBIN ELECTRIC CO LTD	Hong Kong (XHKH)	Common Stock	HARBIN ELECTRIC CO LTD-H	1133 HK	A0M4X8	6422761 HK		930709	CNE10000003C0	011043780		



Company	Primary Company (Affiliate/Parent)	Exchange	Security Type	Security Name	Ticker	WPK Number	SEDOL	CUSIP	Sicvnm	ISIN	COMMON	CHS	Fondscode
VOLKSWAGEN AG	MAN SE	SIX Swiss Ex (XSWX)	Common Stock	VOLKSWAGEN AG	VOW SW	766400	5496994 CH						
VOLKSWAGEN AG	MAN SE	BATS Europe (BATE)	Common Stock	VOLKSWAGEN AG	VW EB	766400	5496994 CH		996800	DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	EN Amsterdam (XAMS)	Common Stock	VOLKSWAGEN AG	VWA NA	766400	5497016 NL			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	Luxembourg (XLUX)	Common Stock	VOLKSWAGEN AG	VOW LX	766400	5497061 LU			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	Euro Comp (XLOX)	Common Stock	VOLKSWAGEN AG	VOW BQ	766400	5497102 DE			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	BATS Europe (BATE)	Common Stock	VOLKSWAGEN AG	VOW EB	766400	5497102 DE			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Common Stock	VOLKSWAGEN AG	VOW GB	766400	5497102 DE			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Common Stock	VOLKSWAGEN AG	VOW GD	766400	5497102 DE			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Common Stock	VOLKSWAGEN AG	VOW GF	766400	5497102 DE			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Common Stock	VOLKSWAGEN AG	VOW GH	766400	5497102 DE			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Common Stock	VOLKSWAGEN AG	VOW GI	766400	5497102 DE			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Common Stock	VOLKSWAGEN AG	VOW GM	766400	5497102 DE			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Common Stock	VOLKSWAGEN AG	VOW GR	766400	5497102 DE			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Common Stock	VOLKSWAGEN AG	VOW GS	766400	5497102 DE			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	Quotrix Exch (XQTX)	Common Stock	VOLKSWAGEN AG	VOW GY	766400	5497102 DE			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	Tradegate (XGAT)	Common Stock	VOLKSWAGEN AG	VOW GT	766400	5497102 DE			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	Turquoise (TRQX)	Common Stock	VOLKSWAGEN AG	VOW TH	766400	5497102 DE			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	Chi-X Europe (CHIX)	Common Stock	VOLKSWAGEN AG	VOW IX	766400	5497102 DE			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	OTC US (OOTO)	Common Stock	VOLKSWAGEN AG	VWVQ	766400	5497102 DE			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	OTC US (OOTO)	Common Stock	VOLKSWAGEN AG	VLKAF PQ	766400	801DRL7 US			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	OTC US (OOTO)	Common Stock	VOLKSWAGEN AG	VLKAF US	766400	801DRL7 US			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	EuroTLX (ETLX)	Common Stock	VOLKSWAGEN AG	VWV TE	766400	B7N7869 IT			DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	Euro Comp (XLOX)	Common Stock	VOLKSWAGEN AG	VOW EU	766400				DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	Euro Comp (XLOX)	Common Stock	VOLKSWAGEN AG	VOWCH EF	766400				DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	Blockmatch (BLOX)	Common Stock	VOLKSWAGEN AG	VOWD B3	766400				DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	UBS MTF (KUBS)	Common Stock	VOLKSWAGEN AG	VOWD S2	766400				DE0007664005	00115308		
VOLKSWAGEN AG	MAN SE	LSE EuropeQS (XLOX)	Preference	VOLKSWAGEN AG-PREF	50IT LI	766403	0309291 GB			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	LSE EuropeQS (XLOX)	Preference	VOLKSWAGEN AG-PREF	50IT LO	766403	0309291 GB			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	EURO OTC (XLOX)	Preference	VOLKSWAGEN AG-PREF	VOW3 XA	766403	0309291 GB			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	EURO OTC (XLOX)	Preference	VOLKSWAGEN AG-PREF	VOW3 XB	766403	0309291 GB			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	EURO OTC (XLOX)	Preference	VOLKSWAGEN AG-PREF	VOW3 XD	766403	0309291 GB			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	EURO OTC (XLOX)	Preference	VOLKSWAGEN AG-PREF	VOW3 XE	766403	0309291 GB			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	EURO OTC (XLOX)	Preference	VOLKSWAGEN AG-PREF	VOW3 XF	766403	0309291 GB			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	EURO OTC (XLOX)	Preference	VOLKSWAGEN AG-PREF	VOW3 XG	766403	0309291 GB			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	EURO OTC (XLOX)	Preference	VOLKSWAGEN AG-PREF	VOW3 XH	766403	0309291 GB			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	EURO OTC (XLOX)	Preference	VOLKSWAGEN AG-PREF	VOW3 XI	766403	0309291 GB			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	EURO OTC (XLOX)	Preference	VOLKSWAGEN AG-PREF	VOW3 XJ	766403	0309291 GB			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	EURO OTC (XLOX)	Preference	VOLKSWAGEN AG-PREF	VOW3 XK	766403	0309291 GB			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	EURO OTC (XLOX)	Preference	VOLKSWAGEN AG-PREF	VOW3 XL	766403	0309291 GB			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	EURO OTC (XLOX)	Preference	VOLKSWAGEN AG-PREF	VOW3 XM	766403	0309291 GB			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	EURO OTC (XLOX)	Preference	VOLKSWAGEN AG-PREF	VOW3 XN	766403	0309291 GB			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	EURO OTC (XLOX)	Preference	VOLKSWAGEN AG-PREF	VOW3 XO	766403	0309291 GB			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	SIX Swiss Ex (XSWX)	Preference	VOLKSWAGEN AG-PREF	VWV BV	766403	5497146 CH			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	SIX Swiss Ex (XSWX)	Preference	VOLKSWAGEN AG-PREF	VWV SW	766403	5497146 CH			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	SIX Swiss Ex (XSWX)	Preference	VOLKSWAGEN AG-PREF	VWV SW	766403	5497146 CH			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Euro Comp (XLOX)	Preference	VOLKSWAGEN AG-PREF	VOW3 BQ	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	BATS Europe (BATE)	Preference	VOLKSWAGEN AG-PREF	VOW3 BQ	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-PREF	VOW3 EB	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-PREF	VOW3 GB	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-PREF	VOW3 GD	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-PREF	VOW3 GE	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-PREF	VOW3 GF	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-PREF	VOW3 GH	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-PREF	VOW3 GI	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-PREF	VOW3 GJ	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-PREF	VOW3 GK	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-PREF	VOW3 GL	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-PREF	VOW3 GM	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-PREF	VOW3 GN	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-PREF	VOW3 GO	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-PREF	VOW3 GP	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-PREF	VOW3 GQ	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Chi-X Europe (CHIX)	Preference	VOLKSWAGEN AG-PREF	VOW3 IX	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Quotrix Exch (XQTX)	Preference	VOLKSWAGEN AG-PREF	VOW3 QT	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Aquis Exchq (AQXE)	Preference	VOLKSWAGEN AG-PREF	VOW3 QX	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Tradegate (XGAT)	Preference	VOLKSWAGEN AG-PREF	VOW3 TH	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Turquoise (TRQX)	Preference	VOLKSWAGEN AG-PREF	VOW3 TO	766403	5497168 DE			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Luxembourg (XLUX)	Preference	VOLKSWAGEN AG-PREF	VOWP LX	766403	5497221 LU			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	OTC US (OOTO)	Preference	VOLKSWAGEN AG-PREF	VLKPF PQ	766403	B1GXSC7 US			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	OTC US (OOTO)	Preference	VOLKSWAGEN AG-PREF	VLKPF US	766403	B1GXSC7 US			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	OTC US (OOTO)	Preference	VOLKSWAGEN AG-PREF	VLKPF US	766403	B1GXSC7 US			DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Euro Comp (XLOX)	Preference	VOLKSWAGEN AG-PREF	VOW3 EU	766403				DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Euro Comp (XLOX)	Preference	VOLKSWAGEN AG-PREF	VOW3CH EF	766403				DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Blockmatch (BLOX)	Preference	VOLKSWAGEN AG-PREF	VOW3D B3	766403				DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Liquidet (LIQU)	Preference	VOLKSWAGEN AG-PREF	VOW3D L3	766403				DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	UBS MTF (KUBS)	Preference	VOLKSWAGEN AG-PREF	VOW3D S2	766403				DE0007664039	00117432		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-NEW	VOWN GB	A13ST1	BV8VNB3 DE			DE000A13ST10	116718049		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-NEW	VOWN GD	A13ST1	BV8VNB3 DE			DE000A13ST10	116718049		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-NEW	VOWN GF	A13ST1	BV8VNB3 DE			DE000A13ST10	116718049		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-NEW	VOWN GH	A13ST1	BV8VNB3 DE			DE000A13ST10	116718049		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-NEW	VOWN GI	A13ST1	BV8VNB3 DE			DE000A13ST10	116718049		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-NEW	VOWN GJ	A13ST1	BV8VNB3 DE			DE000A13ST10	116718049		
VOLKSWAGEN AG	MAN SE	Xetra (XETR)	Preference	VOLKSWAGEN AG-NEW	VOWN GK	A13ST1	BV8VNB3 DE			DE000A13ST10	116718049		
VOLKSWAGEN AG	MAN SE	Euro Comp (XLOX)	Preference	VOLKSWAGEN AG-NEW	VOWNHEUR EU	A13ST1				DE000A13ST10	116718049		
VOLKSWAGEN AG	MAN SE	OTC US (OOTO)	ADR	VOLKSWAGEN AG-SPONS ADR	VLKAY PQ	879511	2930484 US	928662303		US9286623031	011526233		
VOLKSWAGEN AG	MAN SE	OTC US (OOTO)	ADR	VOLKSWAGEN AG-SPONS ADR	VLKAY US	879511	2930484 US	928662					

Company	Primary Company (Affiliate/Parent)	Exchange	Security Type	Security Name	Ticker	WPK Number	SEDOL	CUSIP	Sicovam	ISIN	COMMON	CINS	Fondscode
<b>OIL &amp; NATURAL GAS CORP LTD</b>	<b>OIL &amp; NATURAL GAS CORP</b>	<b>Natl India (XNSE)</b>	<b>Second Lending</b>	<b>OIL &amp; NATURAL GAS CORP - SLB</b>	<b>ONGC/IS</b>								
<b>OIL INDIA LTD</b>	<b>OIL INDIA LTD</b>	<b>Natl India (XNSE)</b>	<b>Common Stock</b>	<b>OIL INDIA LTD</b>	<b>OINL IB</b>								
<b>OIL INDIA LTD</b>	<b>OIL INDIA LTD</b>	<b>Natl India (XNSE)</b>	<b>Common Stock</b>	<b>OIL INDIA LTD</b>	<b>OINL IN</b>	<b>A0X9PF</b>	<b>B409HQ9 IN</b>						
<b>OIL INDIA LTD</b>	<b>OIL INDIA LTD</b>	<b>Natl India (XNSE)</b>	<b>Common Stock</b>	<b>OIL INDIA LTD</b>	<b>OINL IS</b>	<b>A0X9PF</b>	<b>B409HQ9 IN</b>						
<b>ORCA GOLD INC</b>	<b>ORCA GOLD INC</b>	<b>Venture (XTSX)</b>	<b>Common Stock</b>	<b>ORCA GOLD INC</b>	<b>ORG CN</b>	<b>A1T8LS</b>	<b>B84J7Q3 CA</b>	<b>88558N102</b>					
<b>ORCA GOLD INC</b>	<b>ORCA GOLD INC</b>	<b>Venture (XTSX)</b>	<b>Common Stock</b>	<b>ORCA GOLD INC</b>	<b>ORG CV</b>	<b>A1T8LS</b>	<b>B84J7Q3 CA</b>	<b>88558N102</b>					
<b>ORCA GOLD INC</b>	<b>ORCA GOLD INC</b>	<b>Venture (XTSX)</b>	<b>Common Stock</b>	<b>ORCA GOLD INC</b>	<b>ORG DS</b>	<b>A1T8LS</b>	<b>B84J7Q3 CA</b>	<b>88558N102</b>					
<b>ORCA GOLD INC</b>	<b>ORCA GOLD INC</b>	<b>Venture (XTSX)</b>	<b>Common Stock</b>	<b>ORCA GOLD INC</b>	<b>ORG DV</b>	<b>A1T8LS</b>	<b>B84J7Q3 CA</b>	<b>88558N102</b>					
<b>ORCA GOLD INC</b>	<b>ORCA GOLD INC</b>	<b>Venture (XTSX)</b>	<b>Common Stock</b>	<b>ORCA GOLD INC</b>	<b>ORG TG</b>	<b>A1T8LS</b>	<b>B84J7Q3 CA</b>	<b>88558N102</b>					
<b>ORCA GOLD INC</b>	<b>ORCA GOLD INC</b>	<b>Venture (XTSX)</b>	<b>Common Stock</b>	<b>ORCA GOLD INC</b>	<b>ORG TJ</b>	<b>A1T8LS</b>	<b>B84J7Q3 CA</b>	<b>88558N102</b>					
<b>ORCA GOLD INC</b>	<b>ORCA GOLD INC</b>	<b>Venture (XTSX)</b>	<b>Common Stock</b>	<b>ORCA GOLD INC</b>	<b>ORG TN</b>	<b>A1T8LS</b>	<b>B84J7Q3 CA</b>	<b>88558N102</b>					
<b>ORCA GOLD INC</b>	<b>ORCA GOLD INC</b>	<b>OTC US (OOTC)</b>	<b>Common Stock</b>	<b>ORCA GOLD INC</b>	<b>CANWF PQ</b>	<b>A1T8LS</b>	<b>B8JYMF7 US</b>	<b>88558N104</b>					
<b>ORCA GOLD INC</b>	<b>ORCA GOLD INC</b>	<b>OTC US (OOTC)</b>	<b>Common Stock</b>	<b>ORCA GOLD INC</b>	<b>CANWF PS</b>	<b>A1T8LS</b>	<b>B8JYMF7 US</b>	<b>88558N104</b>					
<b>ORCA GOLD INC</b>	<b>ORCA GOLD INC</b>	<b>OTC US (OOTC)</b>	<b>Common Stock</b>	<b>ORCA GOLD INC</b>	<b>CANWF UV</b>	<b>A1T8LS</b>	<b>B8JYMF7 US</b>	<b>88558N102</b>					
<b>ORCA GOLD INC</b>	<b>ORCA GOLD INC</b>	<b>Frankfurt (XFRA)</b>	<b>Common Stock</b>	<b>ORCA GOLD INC</b>	<b>HUBA GB</b>	<b>A1T8LS</b>	<b>B9L5SS9 DE</b>	<b>88558N102</b>					
<b>ORCA GOLD INC</b>	<b>ORCA GOLD INC</b>	<b>Frankfurt (XFRA)</b>	<b>Common Stock</b>	<b>ORCA GOLD INC</b>	<b>HUBA GF</b>	<b>A1T8LS</b>	<b>B9L5SS9 DE</b>	<b>88558N102</b>					
<b>ORCA GOLD INC</b>	<b>ORCA GOLD INC</b>	<b>Frankfurt (XFRA)</b>	<b>Common Stock</b>	<b>ORCA GOLD INC</b>	<b>HUBA GR</b>	<b>A1T8LS</b>	<b>B9L5SS9 DE</b>	<b>88558N102</b>					
<b>ORCA GOLD INC</b>	<b>ORCA GOLD INC</b>	<b>Frankfurt (XFRA)</b>	<b>Common Stock</b>	<b>ORCA GOLD INC</b>	<b>HUBA GS</b>	<b>A1T8LS</b>	<b>B9L5SS9 DE</b>	<b>88558N102</b>					
<b>ENGEN BOTSWANA LTD</b>	<b>PETROLIAM NASIONAL BERHAD aka PETRONAS</b>	<b>Gaborone (XBOT)</b>	<b>Common Stock</b>	<b>ENGEN</b>	<b>ENGN BG</b>	<b>546632</b>	<b>B063G04</b>						
<b>KLCCP STAPLED GROUP</b>	<b>PETROLIAM NASIONAL BERHAD aka PETRONAS</b>	<b>Bursa Malaysia (XKLS)</b>	<b>Common Stock</b>	<b>KLCC PROPERTY HOLDINGS BHD</b>	<b>KLCCSS MK</b>	<b>A1T91X</b>	<b>B92NSW7 MY</b>						
<b>MALAYSIA INTERNATIONAL SHIPPING COMPANY aka MISC BHD</b>	<b>PETRONAS</b>	<b>Bursa Malaysia (XKLS)</b>	<b>Common Stock</b>	<b>MISC BHD</b>	<b>MISC MK</b>	<b>880504</b>	<b>6557997 MY</b>		<b>905279</b>				
<b>MALAYSIA MARINE AND HEAVY ENGINEERING HOLDINGS BHD</b>	<b>PETROLIAM NASIONAL BERHAD aka PETRONAS</b>	<b>Bursa Malays (XKLS)</b>	<b>Common Stock</b>	<b>MALAYSIA MARINE AND HEAVY EN</b>	<b>MMHE MK</b>	<b>A1C7U6</b>	<b>B3W5NN7</b>						
<b>PETRONAS CHEMICALS GROUP BHD</b>	<b>PETROLIAM NASIONAL BERHAD aka PETRONAS</b>	<b>Bursa Malaysia (XKLS)</b>	<b>Common Stock</b>	<b>PETRONAS CHEMICALS GROUP BHD</b>	<b>PCHEM MK</b>	<b>A1C891</b>	<b>B5KQGT3 MY</b>						
<b>PETRONAS DAGANGAN BHD</b>	<b>PETROLIAM NASIONAL BERHAD aka PETRONAS</b>	<b>Bursa Malaysia (XKLS)</b>	<b>Common Stock</b>	<b>PETRONAS DAGANGAN BHD</b>	<b>PETD MK</b>	<b>895131</b>	<b>6695938 MY</b>						
<b>PETRONAS GAS BHD</b>	<b>PETROLIAM NASIONAL BERHAD aka PETRONAS</b>	<b>Bursa Malaysia (XKLS)</b>	<b>Common Stock</b>	<b>PETRONAS GAS BHD</b>	<b>PTG MK</b>	<b>896633</b>	<b>6703972 MY</b>						
<b>SCOMI ENERGY SERVICES BHD</b>	<b>SCOMI GROUP BERHAD</b>	<b>Bursa Malaysia (XKLS)</b>	<b>Common Stock</b>	<b>SCOMI ENERGY SERVICES BHD</b>	<b>SES MK</b>	<b>215406</b>	<b>6081593</b>						
<b>SCOMI ENGINEERING BERHAD</b>	<b>SCOMI GROUP BERHAD</b>	<b>Bursa Malaysia (XKLS)</b>	<b>Common Stock</b>	<b>SCOMI ENGINEERING BHD</b>	<b>SEB MK</b>	<b>903056</b>	<b>6088452 MY</b>						
<b>SCOMI GROUP BERHAD</b>	<b>SCOMI GROUP BERHAD</b>	<b>Bursa Malaysia (XKLS)</b>	<b>Common Stock</b>	<b>SCOMI GROUP BHD</b>	<b>SSB MK</b>	<b>120745</b>	<b>B00PKJ3 MY</b>						
<b>STATESMAN RESOURCES LIMITED</b>	<b>STATESMAN RESOURCES LIMITED</b>	<b>Venture (XTSX)</b>	<b>Common Stock</b>	<b>STATESMAN RESOURCES LTD</b>	<b>SRR CN</b>	<b>A1J2NC</b>	<b>B80L116 CA</b>	<b>857652200</b>					
<b>STATESMAN RESOURCES LIMITED</b>	<b>STATESMAN RESOURCES LIMITED</b>	<b>Venture (XTSX)</b>	<b>Common Stock</b>	<b>STATESMAN RESOURCES LTD</b>	<b>SRR CV</b>	<b>A1J2NC</b>	<b>B80L116 CA</b>	<b>857652200</b>					
<b>STATESMAN RESOURCES LIMITED</b>	<b>STATESMAN RESOURCES LIMITED</b>	<b>Venture (XTSX)</b>	<b>Common Stock</b>	<b>STATESMAN RESOURCES LTD</b>	<b>SRR TG</b>	<b>A1J2NC</b>	<b>B80L116 CA</b>	<b>857652200</b>					



## ATTACHMENT E

### EIRIS Conflict Risk Network (CRN) List of "Scrutinized" Companies in Sudan List Effective March 31, 2015

Company Name	Country of Origin
<b>Alstom</b>	France
Alstom India Ltd	India
Alstom T&D India Ltd.	India
<b>Andritz AG</b>	Austria
<b>ASEC Company for Mining</b>	Egypt
<b>Bharat Electronics Limited</b>	India
<b>Bharat Heavy Electricals Limited</b>	India
<b>Caterpillar Inc.</b>	US
<b>China Gezhouba Group Company Ltd.</b>	China
<b>China Hydraulic and Hydroelectric Construction Group (Sinohydro)</b>	China
Power Construction Corporation of China Ltd.	China
Sichuan Power Development Company	China
Sinohydro Bureau 7 Co. Ltd.	China
Sinohydro Engineering Bureau 8 Co. Ltd	China
<b>China Machinery Engineering Corporation</b>	China
<b>China National Petroleum Corporation</b>	China
CNPC General Capital Ltd.	British Virgin Islands
CNPC HK Overseas Capital Ltd.	Hong Kong
Daqing Huake Group Co. Ltd.	China
Jinan Diesel Engine Co. Ltd.	China
Kunlun Energy Co. Ltd.	Hong Kong
PetroChina Co. Ltd.	China
<b>China North Industries Group Corporation</b>	China
AKM Industrial Co. Ltd.	China
NORINCO International Cooperation Ltd.	China
North Huajin Chemical Industries	China
North Navigation Control Technology Co. Ltd	China
Sichuan Nitrocell Co. Ltd	China
<b>China Petrochemical Corporation (Sinopec Group)</b>	China
China Petroleum and Chemical Corporation a.k.a. Sinopec Corp	China
Kingdream PLC	China
Sinopec Capital 2013 Ltd.	British Virgin Islands
Sinopec Engineering Group Co. Ltd.	China
Sinopec Group Overseas Development 2012 Ltd.	British Virgin Islands
Sinopec Group Overseas Development 2013 Ltd.	British Virgin Islands
Sinopec Kanton Holdings Ltd.	Hong Kong
Sinopec Shanghai Petrochemicals Ltd.	China
Sinopec Yizheng Chemical Fibre Co. Ltd.	China
<b>China Poly Group Corporation</b>	China
Poly Energies Holding Co. Ltd.	Hong Kong
Poly Property Group Co. Ltd.	China
<b>Dongfeng Motor Group Co. Ltd.</b>	China
<b>Egypt Kuwait Holding Company</b>	Egypt
<b>Energy House Holding Co. K.S.C.C., The</b>	Kuwait
<b>GAZ Group</b>	Russia
GAZ Auto Plant	Russia
Pavlovsky Bus Plant	Russia
<b>Glencore PLC</b>	Switzerland
Caracal Energy Inc.	Canada
Glencore Canada Corp.	Canada
Glencore Canada Financial Corp.	Canada
Glencore Finance Canada Ltd.	Canada
Glencore Finance Dubai Ltd.	Canada
Glencore Finance Europe	Dubai
Glencore Funding LLC	Germany
Viterra Inc.	USA
<b>Harbin Electric Company Ltd.</b>	Canada
<b>Indian Oil Corporation Ltd.</b>	China
Chennai Petroleum Corporation Ltd.	India
Lanka IOC PLC	India
<b>Jiangxi Hongdu Aviation Industry Co. Ltd.</b>	India
<b>JX Holdings Inc.</b>	China
Eneos Globe Company	Japan
Nippo Corp.	Japan
Toho Titanium Co.	Japan
<b>LS Industrial Systems</b>	Japan
	South Korea



<b>MAN SE</b>	
Renk AG	Germany
Volkswagen AG	Germany
<b>Managem</b>	Germany
ONA S.A.	Morocco
Societe Metallurgique D'imiter	Morocco
<b>Oil and Natural Gas Corporation Limited</b>	Morocco
Mangalore Refinery and Petrochemicals Ltd. a.k.a MRPL	India
ONGC Videsh Limited a.k.a OVL	India
<b>Oil India Ltd.</b>	India
<b>Orca Gold Inc.</b>	India
<b>Pertamina Persero PT</b>	Canada
<b>Petroliam Nasional Berhad (Petronas)</b>	Indonesia
Engen Botswana Ltd.	Malaysia
Gas District Cooling Putrajaya Sdn Bhd	Malaysia
KLCC Property Holdings Bhd	Malaysia
Malaysia International Shipping Company a.k.a MISC Berhad	Malaysia
Malaysia Marine and Heavy Engineering Holdings Bhd	Malaysia
Petronas Capital Ltd.	Malaysia
Petronas Chemicals Group Berhad	Malaysia
Petronas Dagangan Bhd	Malaysia
Petronas Gas Bhd	Malaysia
Putrajaya Holdings Sdn Bhd	Malaysia
<b>Ranhill Berhad</b>	Malaysia
Ranhill Power Sdn Bhd	Malaysia
Ranhill Powertron Sdn	Malaysia
Ranhill Powertron II Sdn	Malaysia
<b>Reliance Industries Ltd.</b>	Malaysia
Network 18 Media & Investments Ltd.	India
Reliance Holdings USA Inc	India
Reliance Jio Infocomm Ltd.	USA
TV18 Broadcast Ltd.	
<b>Scomi Group Berhad</b>	India
KMCOB Capital Berhad	Malaysia
Scomi Energy Services Bhd	Malaysia
Scomi Engineering Berhad	Malaysia
<b>Statesman Resources Limited</b>	Malaysia
<b>Trafigura Beheer</b>	Canada
	Netherlands

Note: List contains parent companies and subsidiaries publicly traded

**EIRIS Conflict Risk Network (CRN) List of Companies in Sudan for "Substantial Action"**  
**List Effective March 31, 2015**

<b>Company Name</b>	<b>Country of Origin</b>
Atlas Copco AB	Sweden
Wartsila OYJ	Finland

**EIRIS Conflict Risk Network (CRN) List of Companies in Sudan with "No Publicly Traded Equity"**  
**or "Not Relevant under the CRN Targeted Divestment Model"**  
**List Effective March 31, 2015**

<b>Company Name</b>	<b>Country of Origin</b>
Abdel Hadi Abdullah Al-Qahtani & Sons Group of Companies	Saudi Arabia
Abdel Moniem International Petroleum Co. Ltd. (Petromoniem)	Sudan
ACES (Arab Center for Engineering Studies) Khartoum	Jordan
Africa Energy Sa Nigeria Ltd.	Nigeria
Ansan Wikfs Investments Ltd.	Yemen
Antonov	Ukraine
APS Engineering Company Roma S.p.A.	Italy
Arcadia Petroleum Ltd.	UK
Blue Coat Systems	USA
China International Water & Electric Corporation	China
Concorp Petroleum Limited	Sudan
Daedong Industrial Machinery Co., Ltd	South Korea
Dindir Petroleum International	Jordan
European Marmot Co. Group	Switzerland
Express Petroleum and Gas Company	Nigeria
GIAD Motor Co Ltd.	Sudan
Hemia II AS	Norway
Hi-Tech Petroleum Group Co., Ltd.	Sudan
HTC Yemen International Ltd.	Yemen
IGS (International Geoscience Services) Ltd.	United Kingdom
La Mancha Resources	Canada
Lahmeyer International	Germany
MAM Holding Group Co. Ltd.	Sudan
Mott MacDonald	UK
Niel Petroleum S.A.	Luxembourg
Petroneeds Service International Company	Sudan
PetroTrans Company Ltd.	Hong Kong
Quest Qualitas FZCO	United Arab Emirates
RAM Energy	Sudan
SFTUE Belspetsvneshtekhnika	Belarus
Shandong Electric Power Construction Corporation	China
SMEC Holdings Limited	Australia
Soma Group	Turkey
Star Petroleum S.A.	Spain
STR Projetos e Participacoes	Brazil
Sudanese Petroleum Pipeline Holding Co. Ltd.	Sudan
Sudan Petroleum Corporation (Sudapet)	Sudan
Toro Gold Ltd.	UK
UAE for Gold Minerals and Investment Company Ltd.	United Arab Emirates
Vitol Group	Switzerland

Source: EIRIS Conflict Risk Network (February 27, 2015)

## ATTACHMENT F

### Letter to SBI International and Domestic Equity Managers

March 20, 2015

#### Regarding: Iran Companies

Dear Manager:

The Minnesota State Board of Investment (SBI) sent you prior communication concerning holdings in companies doing business in Iran. **This new communication applies to all SBI equity portfolios managed by your organization and replaces all prior communications. This communication also applies to all depository receipts or ADR's of any of the listed companies.**

*Minnesota Statutes*, section 11A.244, requires the Minnesota State Board of Investment (SBI) to implement an Iran restriction.

**Attachment 1** is the List of Restricted Iran Companies. **These securities may not be purchased for the SBI portfolio that your organization manages.** If you own securities of companies on the Restricted List **and** the companies are **not** on the divestment list, then you do not need to sell your holdings. Please note that the attached list makes changes to the List of Restricted Iran Companies that was attached to the December 19, 2014 letter you received. **This new list is effective March 31, 2015.**

The following company has been **added** to the Restricted List:

- **Gazprom** **Russia**

The following companies have been **removed** from the Restricted List:

- **Daelim Industrial** **South Korea**
- **Nagarjuna Fertilizers & Chemicals Ltd.** **India**

**Attachment 2** is the List of Iran Companies Requiring Divestment. There have been no changes to this list.

**If you own securities of companies on the List of Iran Companies Requiring Divestment in the SBI portfolio that your organization manages, then you must divest those holdings according to the schedule provided in the Attachment:**

- At least 50 percent of a company's holdings must be sold by the date indicated, and
- At least 100 percent of a company's holdings must be sold by the date indicated.

**Attachment 3** is a list of security identifiers for the companies on the List of Restricted Iran Companies (**Attachment 1**) that your organization may use. The SBI does not represent that this is a complete list of identifiers. The manager is responsible for identifying all listings.

If you have any questions about this matter, please contact either your assigned SBI Investment Officer or Patricia Ammann.

Sincerely,

LeaAnn M. Stagg  
Chief Operating Officer

Enclosures

cc: Michael J. Menssen, Director, Public Markets  
Patricia Ammann, Investment Officer, DC & Trust Services  
Mercy Ndungu, Investment Officer, DC & Trust Services  
Tammy Brusehaver, Investment Officer, Public Markets  
Inma Conde Goldman, Investment Officer, Public Markets  
Stephanie Gleeson, Investment Officer, Public Markets  
Robert Weiler, Investment Officer, Public Markets  
Nate Blumenshine, Investment Analyst

**ATTACHMENT 1**  
**RESTRICTED IRAN COMPANIES**  
**SECURITIES OF COMPANIES MAY NOT BE PURCHASED FOR PORTFOLIO**

<b>COMPANY NAME</b>	<b>COUNTRY</b>
Bharat Petroleum Corporation Ltd.	India
China Petroleum & Chemical Corp	China
Gail (India) Ltd.	India
Gubre Fabrikalari T.A.S.	Turkey
Gazprom OAO	Russia
Harbin Electric Company Ltd.	China
Indian Oil Corporation Ltd.	India
L G International	South Korea
Marie Tecnimont S.p.A.	Italy
Mitsui & Co. Ltd	Japan
Oil & Natural Gas Corporation Ltd.	India
PetroChina Co. Ltd.	China
Toyota Tsusho Corporation	Japan

Effective Date: March 31, 2015

**ATTACHMENT 2**

**LIST OF IRAN COMPANIES REQUIRING DIVESTMENT**

<b>Company Name</b>	<b>Country of Origin</b>	<b>Divest 50 Percent By this Date</b>	<b>Divest 100 Percent By this Date</b>
<ul style="list-style-type: none"><li>There are currently no companies requiring divestment</li></ul>			

Effective Date: March 31, 2015

**HISTORICAL DIVESTMENTS**

<b>Company Name</b>	<b>Country of Origin</b>	<b>Divest 50 Percent By this Date</b>	<b>Divest 100 Percent By this Date</b>
Mitsui & Company, Ltd.	Japan	September 30, 2012	March 31, 2013
Toyota Tsusho	Japan	September 30, 2012	March 31, 2013

**ATTACHMENT 3**  
**IRAN RESTRICTED COMPANIES**  
**Security Identifiers**

<b>COMPANY_NAME</b>	<b>SEDOL</b>	<b>ISIN</b>	<b>SYMBOL</b>	<b>CUSIP</b>	<b>COUNTRY</b>
Bharat Petroleum Corporation Ltd.	6099723	INE029A01011	500547		India
China Petroleum & Chemical Corp	2639189	US16941R1086	386	16941R108	China
China Petroleum & Chemical Corp	B4QSP22	US16941R1086	386	16941R108	China
China Petroleum & Chemical Corp	2654375	US16941R1086	386	16941R108	China
China Petroleum & Chemical Corp	B0RSW00	US16941R1086	386	16941R108	China
China Petroleum & Chemical Corp	B01XKR4	CNE1000002Q2	386	16941R108	China
China Petroleum & Chemical Corp	7027756	CNE1000002Q2	386	16941R108	China
China Petroleum & Chemical Corp	6291819	CNE1000002Q2	386	16941R108	China
China Petroleum & Chemical Corp	6373728	CNE0000018G1	386	16941R108	China
China Petroleum & Chemical Corp	B1C5SX8	ARDEUT114071	386	16941R108	China
Gail (India) Ltd.	B1HJ0L7	US36268T2069	532155	36268T206	India
Gail (India) Ltd.	3235520	US36268T2069	532155	36268T206	India
Gail (India) Ltd.	B2NTDN1	US36268T2069	532155	36268T206	India
Gail (India) Ltd.	B033102	US36268T2069	532155	36268T206	India
Gail (India) Ltd.	2498517	US36268T1079	532155	36268T206	India
Gail (India) Ltd.	3235490	US36268T1079	532155	36268T206	India
Gail (India) Ltd.	6133405	INE129A01019	532155	36268T206	India
Gazprom OAO	B0338T0	US3682873068	GAZP		Russia
Gazprom OAO	5385003	US3682873068	GAZP		Russia
Gazprom OAO	5259528	US3682872078	GAZP		Russia
Gazprom OAO	B54DNZ5	US3682872078	GAZP		Russia
Gazprom OAO	BNC9DM8	US3682872078	GAZP		Russia
Gazprom OAO	2016629	US3682872078	GAZP		Russia
Gazprom OAO	5140989	US3682872078	GAZP		Russia
Gazprom OAO	2398899	US3682871088	GAZP		Russia
Gazprom OAO	3313181	US3682871088	GAZP		Russia
Gazprom OAO	4364928	RU0007661625	GAZP		Russia
Gazprom OAO	B0ZNNX7	RU0007661625	GAZP		Russia
Gazprom OAO	B59L4L7	RU0007661625	GAZP		Russia
Gazprom OAO	B2NH841	ARDEUT114261	GAZP		Russia
Gubre Fabrikalari T.A.S.	B03MTC7	TRAGUBRF91E2	GUBRF		Turkey
Gubre Fabrikalari T.A.S.	B188YV1	TRAGUBRF91E2	GUBRF		Turkey
Harbin Electric Company Ltd.	2407665	US4114591005	1133		China
Harbin Electric Company Ltd.	B3BHKK0	CNE1000003C0	1133		China
Harbin Electric Company Ltd.	B1HJDX0	CNE1000003C0	1133		China
Harbin Electric Company Ltd.	6422761	CNE1000003C0	1133		China
Indian Oil Corporation Ltd.	6253767	INE242A01010	530965		India
L G International	B02PV43	KR7001120005	A001120		Korea South
L G International	6537115	KR7001120005	A001120		Korea South
Maire Tecnimont S.p.A.	B68TGK2	US56064T1016	MT	56064T101	Italy
Maire Tecnimont S.p.A.	B2N7CX8	IT0004931058	MT	56064T101	Italy
Maire Tecnimont S.p.A.	BBHGQ65	IT0004931058	MT	56064T101	Italy
Maire Tecnimont S.p.A.	B4XXV22	IT0004931058	MT	56064T101	Italy
Maire Tecnimont S.p.A.	BBGTNT7	IT0004931058	MT	56064T101	Italy
Mitsui & Co. Ltd	4597058	XS0029348686	8031	606827202	Japan
Mitsui & Co. Ltd	2597061	US6068272029	8031	606827202	Japan
Mitsui & Co. Ltd	B1HHX89	US6068272029	8031	606827202	Japan



**ATTACHMENT 3**  
**IRAN RESTRICTED COMPANIES**  
**Security Identifiers**

<b>COMPANY_NAME</b>	<b>SEDOL</b>	<b>ISIN</b>	<b>SYMBOL</b>	<b>CUSIP</b>	<b>COUNTRY</b>
Mitsui & Co. Ltd	B0ZGPX0	JP3893600001	8031	606827202	Japan
Mitsui & Co. Ltd	B03KWZ5	JP3893600001	8031	606827202	Japan
Mitsui & Co. Ltd	5736463	JP3893600001	8031	606827202	Japan
Mitsui & Co. Ltd	4594071	JP3893600001	8031	606827202	Japan
Mitsui & Co. Ltd	6597302	JP3893600001	8031	606827202	Japan
Oil & Natural Gas Corporation Ltd.	6139362	INE213A01029	500312		India
Oil & Natural Gas Corporation Ltd.	6139362	INE213A01011	500312		India
PetroChina Co. Ltd.	B569834	US71646E1001	857	71646E100	China
PetroChina Co. Ltd.	B3KTK63	US71646E1001	857	71646E100	China
PetroChina Co. Ltd.	2568841	US71646E1001	857	71646E100	China
PetroChina Co. Ltd.	4633327	US71646E1001	857	71646E100	China
PetroChina Co. Ltd.	B28SLD9	CNE1000007Q1	857	71646E100	China
PetroChina Co. Ltd.	B17HOR7	CNE1000003W8	857	71646E100	China
PetroChina Co. Ltd.	5939507	CNE1000003W8	857	71646E100	China
PetroChina Co. Ltd.	B01DNL9	CNE1000003W8	857	71646E100	China
PetroChina Co. Ltd.	6226576	CNE1000003W8	857	71646E100	China
PetroChina Co. Ltd.	B1C5SR2	ARDEUT113958	857	71646E100	China
Toyota Tsusho Corporation	B3DTSN3	US89240C1062	8015		Japan
Toyota Tsusho Corporation	B6361P8	JP3635000007	8015		Japan
Toyota Tsusho Corporation	B3BK3N3	JP3635000007	8015		Japan
Toyota Tsusho Corporation	6900580	JP3635000007	8015		Japan

## Letter to SBI Fixed Income Managers

March 20, 2015

### Regarding: Iran Companies

Dear Manager:

The Minnesota State Board of Investment (SBI) sent you prior communication concerning holdings in companies doing business in Iran. **This communication applies to the SBI fixed income portfolio managed by your organization.**

*Minnesota Statutes*, section 11A.244, requires the Minnesota State Board of Investment (SBI) to implement an Iran restriction.

**Attachment 1** is the List of Restricted Iran Companies. **These securities may not be purchased for the SBI portfolio that your organization manages.** If you own securities of companies on the Restricted List **and** the companies are **not** on the divestment list, then you do not need to sell your holdings. Please note that the attached list makes changes to the List of Restricted Iran Companies that was attached to the December 19, 2014 letter you received. **This new list is effective March 31, 2015.**

The following company has been **added** to the Restricted List:

- **Gazprom** **Russia**

The following companies have been **removed** from the Restricted List:

- **Daelim Industrial** **South Korea**
- **Nagarjuna Fertilizers & Chemicals Ltd.** **India**

**Attachment 2** is the List of Iran Companies Requiring Divestment. There have been no changes to this list.

**If you own securities of companies on the List of Iran Companies Requiring Divestment in the SBI portfolio that your organization manages, then you must divest those holdings according to the schedule provided in the Attachment:**

- At least 50 percent of a company's holdings must be sold by the date indicated, and
- At least 100 percent of a company's holdings must be sold by the date indicated.

If you have any questions about this matter, please contact Aaron Griga,  
Cassandra Boll or Patricia Ammann.

Sincerely,

LeaAnn M. Stagg  
Chief Operating Officer

Enclosures

cc: Michael J. Menssen, Director, Public Markets  
Aaron Griga, Investment Officer, Public Markets  
Cassandra Boll, Investment Officer, Cash Mgmt. Services & Public Markets  
Steve Kuettel, Investment Officer, Cash Mgmt. Services  
Patricia Ammann, Investment Officer  
Nate Blumenshine, Investment Analyst

**ATTACHMENT 1**  
**RESTRICTED IRAN COMPANIES**  
**SECURITIES OF COMPANIES MAY NOT BE PURCHASED FOR PORTFOLIO**

<b>COMPANY NAME</b>	<b>COUNTRY</b>
Bharat Petroleum Corporation Ltd.	India
China Petroleum & Chemical Corp	China
Gail (India) Ltd.	India
Gubre Fabrikalari T.A.S.	Turkey
Gazprom OAO	Russia
Harbin Electric Company Ltd.	China
Indian Oil Corporation Ltd.	India
L G International	South Korea
Marie Tecnimont S.p.A.	Italy
Mitsui & Co. Ltd	Japan
Oil & Natural Gas Corporation Ltd.	India
PetroChina Co. Ltd.	China
Toyota Tsusho Corporation	Japan

Effective Date: March 31, 2015

ATTACHMENT 2

LIST OF IRAN COMPANIES REQUIRING DIVESTMENT

<b>Company Name</b>	<b>Country of Origin</b>	<b>Divest 50 Percent By this Date</b>	<b>Divest 100 Percent By this Date</b>
<ul style="list-style-type: none"><li>• There are currently no companies requiring divestment</li></ul>			

Effective Date: March 31, 2015

HISTORICAL DIVESTMENTS

<b>Company Name</b>	<b>Country of Origin</b>	<b>Divest 50 Percent By this Date</b>	<b>Divest 100 Percent By this Date</b>
Mitsui & Company, Ltd.	Japan	September 30, 2012	March 31, 2013
Toyota Tsusho	Japan	September 30, 2012	March 31, 2013

**TAB**

**C**

## **SBI ADMINISTRATIVE COMMITTEE REPORT**

---

DATE: May 12, 2015

TO: Members, State Board of Investment

**FROM: SBI Administrative Committee**

The Administrative Committee met on April 29, 2015 to consider the following agenda items:

- Review of Executive Director's Proposed Workplan for FY16
- Review of Budget Plan for FY16 and FY17
- Review of Continuing Fiduciary Education Plan
- Review of the International Equity Manager Country Guidelines and Process
- Review of Executive Director's Evaluation Process
- Update of Business Continuity Plan

**Action is required by the SBI on the first five items.**

### **1. Review of Executive Director's Proposed Workplan for FY16.**

The Executive Director's Proposed Workplan for FY16 was presented. As in previous workplans, the FY16 plan follows the same category order found in the Executive Director's position description. The plan is a compilation of on-going responsibilities as well as the new initiatives the Executive Director will undertake during the next fiscal year.

A summary of the proposed plan is shown in **Attachment A** on **page 5** of this Tab. Supporting information was sent to each Board member in April 2015 as part of the FY16 Management and Budget Plan document.

#### **RECOMMENDATION:**

**The Committee recommends that the SBI approve the FY16 Executive Director's Workplan. Further, the Committee recommends that the Workplan serve as the basis for the Executive Director's performance evaluation for FY16.**

**2. Review of Budget Plan for FY16 and FY17.**

The SBI's Administrative budget is set annually by the Board with direct charge-back to entities that invest with the SBI. The Legislature also provides an appropriation from the general fund to support management of general fund assets.

An overview of the budget is **Attachment B** on **page 7** of this tab. Supporting information was sent to each Board member in April 2015 as part of the FY16 Management and Budget Plan.

**RECOMMENDATION:**

**The Committee recommends that the SBI approve the FY16, and FY17 Administrative Budget Plan, as presented to the Committee, and that the Executive Director have the flexibility to reallocate funds between budget categories if the Executive Director deems necessary.**

**3. Review of Continuing Fiduciary Education Plan.**

*Minnesota Statutes*, Chapter 356A requires each public pension plan to establish a continuing education plan for its fiduciaries. The plan approved by the Committee is in **Attachment C** on **page 9** of this Tab. Please note that the travel allocation policy for Board members and their designees is included in the plan.

**RECOMMENDATION:**

**The Committee recommends that the SBI adopt the attached Continuing Fiduciary Education Plan.**

**4. Review of the International Equity Manager Country Guidelines Report and Process.**

**Report**

Staff presented and the SBI Administrative Committee approved the updated International Equity Manager Country Guidelines report. Please note that this report was sent to each Board Member in April 2015.

**Process**

Staff presented a history of the International Equity Manager Country Guidelines and made a recommendation to discontinue the process, effective upon approval by the Board, and update the International Equity Manager Investment Guidelines appropriately as noted in **Attachment D** on **page 11**.



**RECOMMENDATION:**

**The SBI Administrative Committee concurs with Staff's recommendation that the SBI authorize the Executive Director to discontinue the International Equity Manager Country Guidelines Process, effective upon approval.**

**Further, if the SBI approves the discontinuance of the International Equity Manager Country Guidelines Process, the SBI Administrative Committee recommends that the SBI authorize the Executive Director to make the appropriate revisions to the International Equity Investment Manager Guidelines to reflect that the provisions of the International Equity Manager Country Guidelines are no longer in effect.**

**5. Review of Executive Director's Evaluation and Salary Process.**

The Committee discussed the process that will be used by the Board to evaluate the Executive Director for FY15. The Committee members agreed to review the current process and timeline and determine if any changes to the process and/or timeline should be recommended.

**RECOMMENDATION:**

**The Committee recommends that the SBI delegate the review of the current evaluation process and timeline to the Administrative Committee. The Administrative Committee will determine if any changes to the evaluation and salary process and/or timeline for the Executive Director's FY15 performance evaluation should be recommended. In addition, the Administrative Committee recommends that the following procedures should continue until the Committee recommends any changes to the process.**

- The SBI deputies/designees will develop an appropriate evaluation form for use by each member, which will reflect the categories in the Executive Director's position description and workplan.**
- Governor's office will coordinate distribution and collection of the evaluation forms and will forward the completed forms to the Executive Director. Board members are encouraged to meet individually with the Executive Director to review their own evaluation.**

**6. Update of Business Continuity Plan.**

Staff updated the Committee regarding the SBI's Business Continuity Plan. The plan provides information and procedures required to respond to an emergency.

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**ATTACHMENT A**

**STATE BOARD OF INVESTMENT  
Executive Director's Proposed Workplan**

**FY16**

**(Categories A, B, C, D, E correspond to the position description)**

	<b>Projected Time Frame</b>
<b>A. DEVELOPMENT OF INVESTMENT POLICIES</b>	
1. Asset Class Structure Reviews for the Combined Funds	In progress
2. Asset Allocation for the Combined Funds	FY16-FY17
<b>B. IMPLEMENTATION OF INVESTMENT POLICIES APPROVED BY THE SBI</b>	
1. Meet or Exceed the Performance Objectives	Ongoing
2. Investments with New and Existing Alternative Asset Managers	Ongoing
3. Manager Search Process	Ongoing
4. Conduct Investment Manager Compliance Review of Guidelines and Contracts	Ongoing
5. Implement State Law Concerning Iran	Ongoing
6. Implement State Law Concerning Sudan	Ongoing
<b>C. REVIEW AND CONTROL OF INVESTMENT POLICIES</b>	
1. Monitor and Evaluate Investment Manager Performance	Ongoing
2. Manager Guidelines	May – Jun.
3. Provide Staff Support to Proxy Committee for Proxy Voting and Shareholder Initiatives	Jul. – Jun.
4. Monitor Implementation of Northern Ireland Mandate	Oct. – Mar.
5. Provide Staff Support for Corporate Actions and Miscellaneous Legal Issues	Jul. – Jun.

#### **D. ADMINISTRATION AND MANAGEMENT**

- |  |             |
|--|-------------|
| 1. Coordinate Financial Audit by Legislative Auditor   | Jul. – Dec. |
| 2. Prepare 2016 Legislative Package  | Jul. – May  |
| 3. Prepare Fiscal Year 2017 Management and Budget Plan   | Feb. – Jun. |
| 4. Annual Update of Business Continuity Plan   | Apr. – Jun. |
| 5. Accounting Process Improvements   | Jan. – Dec. |
| 6. Prepare Annual SIF Investment Options Prospectus and Information Booklet for the Voluntary Statewide Volunteer Firefighter Plan (VSVFP) | May – Sep.  |

#### **E. COMMUNICATION AND REPORTING**

- |  |              |
|--|--------------|
| 1. Prepare reports on investment results                           | Qtly         |
| 2. Prepare Status Reports  | As requested |
| 3. Meet with SBI and IAC   | Qtly         |
| 4. Meet with Board's designees                                     | Qtly         |
| 5. Prepare Fiscal Year 2015 Annual Report                          | Jul. – Jan.  |
| 6. Coordinate Public Pension Plan Performance Reporting Disclosure | Ongoing      |
| 7. Conduct Manager Roundtables                                     | Periodic     |

#### **F. OTHER ITEMS**

During the course of the year, the Executive Director may encounter other significant items which must be addressed that were not contemplated at the time the annual workplan was developed. Any such items will be reported in the Executive Director's Workplan Status Report.

## ATTACHMENT B

### Administrative Budget Fiscal Year 2016 & 2017 Budget Plan Overview

The Fiscal Year 2016/2017 budget request is based on budget procedures instituted by Department of Minnesota Management and Budget.

New statutory authority was passed during the 2006 legislative session to establish a fixed amount from the General Fund and to have the balance of the MSBI's budget billed to organizations that use the MSBI's services. This authority was used to generate the fiscal year 2015 budget and also is the basis for the 2016 and 2017 budget projections. The 2016 budget includes the addition of three new positions, additional office space and one-time moving/remodel costs.

We have included a 3% projected salary increase in the budget for all staff in Fiscal Year 2016 and 2017. The 3% salary increase extends to the Executive Director in order to accommodate a salary increase that may be approved by the Board in the Executive Director annual evaluation process. The actual salary increases for non-investment staff will be determined by legislative negotiated contracts per bargaining unit. The investment staff salary increase, if any, will be determined in accordance with the SBI Salary Plan.

We had budgeted moving and remodel costs in FY15, however the timing of the remodel requires the budget to be established in FY16. We have received better estimates of the remodel cost and the additional amount is included in FY16.

In prior years, the SBI was exempted from paying indirect expenses. However, per Minnesota Management and Budget, they will no longer grant the SBI an exemption. Based upon the estimates we have received from Minnesota Management and Budget we are anticipating \$250,000 in indirect expenses for FY16.

On **page 8** we show the incremental budget impact of the additional budget items for FY16 and FY17.

**STATE BOARD OF INVESTMENT  
FISCAL YEARS 2016 And 2017 BUDGET PLAN  
MSBI OPERATING FUND SUMMARY**

DESCRIPTION	FY2015 BUDGET	FY2015 PROJECTED	FY2016 PROPOSED	FY2017 PROPOSED
<b>PERSONAL SERVICES</b>				
FULL TIME EMPLOYEES	\$ 4,151,000	\$ 3,500,171	\$ 4,591,000	\$ 4,713,000
PART TIME EMPLOYEES	-	-	-	-
OTHER BENEFITS	100,000	74,070	100,000	100,000
<b>SUBTOTAL</b>	<b>\$ 4,251,000</b>	<b>\$ 3,574,241</b>	<b>\$ 4,691,000</b>	<b>\$ 4,813,000</b>
<b>STATE OPERATIONS</b>				
RENTS & LEASES	242,000	207,000	282,000	285,000
REPAIRS/ALTERATIONS/MAINTENANCE	12,000	10,456	372,000	14,000
PRINTING & BINDING	5,000	10,851	7,000	8,000
PROFESSIONAL/TECHNICAL SERVICES	150,000	20,212	150,000	150,000
COMPUTER SYSTEMS SERVICES	20,000	11,996	20,000	21,000
COMMUNICATIONS	30,000	26,080	40,000	41,000
TRAVEL, IN-STATE	1,000	646	1,000	1,000
TRAVEL, OUT-STATE	56,000	66,236	119,000	119,000
SUPPLIES	52,000	21,932	122,000	23,000
EQUIPMENT	33,000	3,000	25,000	35,000
EMPLOYEE DEVELOPMENT	25,000	26,438	35,000	35,000
OTHER OPERATING COSTS	221,000	152,561	140,000	140,000
INDIRECT COSTS			250,000	275,000
<b>SUBTOTAL</b>	<b>\$ 847,000</b>	<b>\$ 557,409</b>	<b>\$ 1,563,000</b>	<b>\$ 1,147,000</b>
<b>TOTAL MSBI OPERATING FUND</b>	<b>\$ 5,098,000</b>	<b>\$ 4,131,650</b>	<b>\$ 6,254,000</b>	<b>\$ 5,960,000</b>

PERCENT INCREASE (DECREASE) OVER PRIOR YEAR BUDGET

22.7%                      -4.7%

ADDITIONAL POSTIONS ADDED 2016

\$ 454,000                      \$ 465,000

ADDITIONAL MOVING COSTS

\$ 335,000

NEW EXPENSE - INDIRECT COSTS

\$ 250,000                      \$ 275,000

TOTAL ADDITIONAL COSTS

\$ 1,039,000                      \$ 740,000

OPERATING EXPENDITURES WITHOUT ADDITIONAL COSTS

\$ 5,215,000                      \$ 5,220,000

PERCENT INCREASE OVER PRIOR YEAR BUDGET WITHOUT ADDITIONAL COSTS

2.3%                                      0.1%

## ATTACHMENT C

### CONTINUING FIDUCIARY EDUCATION PLAN

#### REQUIRED BY MS 356A.13

The State Board of Investment (SBI) undertakes the following activities related to fiduciary education. Taken as a group, these activities shall constitute the plan for continuing fiduciary education required by Minnesota Statutes 356A.13 (copy attached). In addition, pursuant to statutory requirements of qualification, the SBI executive director and many members of the Board's Investment Advisory Council (IAC) can be reasonably considered to be experts with respect to their duties as fiduciaries.

#### **1. Briefing for New Board/IAC Members**

Shortly after election to the Board or appointment to the IAC, each new member is briefed on SBI operations and policies. As part of the briefing, SBI's legal counsel will review the member's fiduciary obligations and responsibilities as specified in Minnesota Statutes Chapters 11A and 356A.

#### **2. Development and Review of Investment Policies**

The SBI adopts comprehensive investment policies for each fund under its control. The policies cover investment objectives, asset allocation, management structure, and performance evaluation. Policy papers or reports on these topics are developed and written by SBI staff in conjunction with the IAC and consultants. Relevant research and analyses from the academic and professional investment fields are used to formulate these policy guidelines.

After the Board formally adopts them, these written policies guide the management of all assets under the SBI's control. The SBI intends to review its stated investment policies periodically. This review may occur within the framework of the SBI's regular quarterly meetings or may take place at special meetings or seminars specifically designated for this purpose.

#### **3. Input from Board's Consultants**

The SBI retains outside investment consultants to advise the Board members on a wide variety of investment management issues. As part of their contracts with the SBI, the consultants offer to meet with the Board members or their designees to discuss investment-related issues. These individual consultations occur throughout the year. In addition, the general consultant is available at each meeting of the Board and IAC. These meetings are supplemented by quarterly reports on investment performance prepared by the general consultant.

#### **4. Manager Roundtables**

The SBI intends to convene small groups of its external money managers to discuss issues related to investment management and the financial markets. These roundtable discussions will be held periodically throughout the year and will be open to Board members and their designees, IAC members and other interested parties. It is anticipated that 2-3 roundtables will be held each year.

#### **5. Travel Allocation**

The SBI allocates \$5,000 annually to each Board member (or their designee) for costs associated with attendance at investment-related seminars and conferences. This allocation is used at the discretion of each Board member.

### **2014 Minnesota Statutes**

#### **356A.13. CONTINUING FIDUCIARY EDUCATION.**

Subdivision 1. **Obligation of fiduciaries.** A fiduciary of a covered pension plan shall make reasonable effort to obtain knowledge and skills sufficient to enable the fiduciary to perform fiduciary activities adequately. At a minimum, a fiduciary of a covered pension plan shall comply with the program established in accordance with subdivision 2.

Subd. 2. **Continuing fiduciary education program.** The governing boards covered pension plans shall each develop and periodically revise a program for the continuing education of any of their board members and any of their chief administrative officers who are not reasonably considered to be experts with respect to their activities as fiduciaries. The program must be designed to provide those persons with knowledge and skills sufficient to enable them to perform their fiduciary activities adequately.



## ATTACHMENT D

### MINNESOTA STATE BOARD OF INVESTMENT



#### Board Members:

Governor  
Mark Dayton

State Auditor  
Rebecca Otto

Secretary of State  
Steve Simon

Attorney General  
Lori Swanson

Executive Director &  
Chief Investment  
Officer:

Mansco Perry

60 Empire Drive  
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FAX (651) 296-9572  
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[www.sbi.state.mn.us](http://www.sbi.state.mn.us)

An Equal Opportunity  
Employer

DATE: April 22, 2015

TO: Members, SBI Administrative Committee

FROM: Mansco Perry III, Executive Director and Chief Investment Officer  
LeaAnn M. Stagg, Chief Operating Officer

SUBJECT: **International Equity Manager Country Guidelines Process**

#### Background

Prior to 1992, the SBI did not participate in international equity investing. However, many large public pension plans had already begun investing in international securities. By 1990, the average allocation to non-US equities for large public pension plans had reached 5% (NASRA). The SBI continued to research international investing and decided to take advantage of the experience of other pension plans before entering into the international equity markets.

In 1992, after significant research, the SBI developed an international investing position paper making the case for international equity investing. Research showed that the key portfolio benefits of international investing included a broader investment opportunity, greater portfolio diversification and the potential for higher returns. By 1990, approximately 31% of the world equity market value (in US \$) was represented by the US, according to the All Country World Index (ACWI). By not participating in the non-US equity market, the SBI was overlooking a broad part of the global investment opportunity set. Furthermore, by diversifying across world markets that did not move in lock-step with that of the US, the SBI determined that international investing could reduce risk/volatility of the total portfolio and increase the potential for higher long-term returns.

At the time of the SBI's initiation into international equities, a Task Force was formed to help recommend guidelines concerning the SBI's international equity investment program. The role of the Task Force was to make recommendations concerning worker and human rights in the non-US markets countries. Working with an international consultant, it was determined that worker and human rights were appropriate indicators of the potential for economic and social disruptions that could ultimately have an adverse effect on the financial markets of a country. The concern of the Task Force was the potential for financial market disruption in the emerging market economies.

Using material compiled from US State Department reports, the Task Force examined several worker and human rights factors, grouped the non-US countries into three broad categories and made the following investing recommendations:

- **Group I:** These countries had legal protections or practices that generally respected worker and human rights. The developed countries fell into this grouping. Because these countries had strong protections for worker and human rights, there was little concern that economic and social disruptions could occur that would have an adverse effect on financial markets. **Managers were not restricted from investing in Group I countries.**
- **Group II:** These countries had legal protections for worker and human rights but violations of these rights had been cited in the state department reports. Generally, these were emerging markets/emerging democracies. Because violations of legally protected worker and human rights continued to occur in these countries, there was some concern that economic and social disruptions could occur and adversely affect the financial markets within these countries.
- **Group III:** These countries lacked basic protections for worker and human rights and did not appear to be making adequate progress in establishing an appropriate legal structure to address these issues. Generally, these were emerging markets/emerging democracies. Because of the basic lack of human and worker rights, the potential for economic, political and social unrest existed that could adversely affect the stability of the financial markets within these countries. **With a written notification to the SBI, international equity managers were allowed to invest in the markets of Group II and/or Group III countries if the managers believed it would be a breach of their fiduciary responsibility not to do so.** [NOTE: From the time the SBI first implemented the country guidelines, all investment managers provided the SBI with a letter indicating their intent to invest in both Group II and Group III countries so as not to breach their fiduciary duty outlined in the investment management agreements with the SBI.]

Since 1992, the country guidelines were updated periodically. While the Administrative Committee continued to approve the updated country guidelines, over time, the responsibility of updating these country rankings moved from the Task Force to the SBI Staff.

Staff believes that it is appropriate to immediately discontinue the International Equity Manager Country Guidelines process. While appropriate at the time of SBI's initial venture into international markets, international equity investing has been a part of the average large public pension plan's strategic asset allocation for almost 25 years and has become mainstream. At the end of 2014, the average large pension plan's international equity asset allocation stood at 22%, more than quadruple the 5% allocation to international equities in 1990 (NASRA). The key portfolio benefits of international investing - a broader investment opportunity, greater portfolio diversification and the potential for higher returns - has been borne out by experienced institutional investors.

In addition, it is important to note that the country guideline process has not changed the way the SBI's international equity investment managers have invested pension assets. The investment management agreements give full discretion to the managers and they must comply with the fiduciary standard outlined in MS Chapters 11A and 356A. In practice, all international equity

managers have provided the SBI with documentation of their intent to invest in Group II and Group III countries in order to not breach their fiduciary duty outlined in the investment management agreements with the SBI.

**RECOMMENDATION:**

**Staff recommends that the SBI Administrative Committee and the Board approve the proposal to discontinue the International Equity Manager Country Guideline Process, effective upon approval.**

**Staff further recommends that Staff be directed to revise the sections of the investment manager guidelines which refer to the International Equity Manager Country Guidelines.**

**TAB**

**D**

DATE: May 12, 2015

TO: Members, Investment Advisory Council

FROM: SBI Staff

Staff has reviewed the following information and action agenda items:

- Review of current strategy.
- Consideration of new commitments.
  - 1) Real Estate TA Realty (existing manager)
  - 2) Private Equity CarVal Investors (existing manager)
  - 3) Private Equity Blackstone (existing manager)
  - 4) Resources EnerVest (new manager)

**IAC action is required on the second item.**

**INFORMATION ITEM:**

**1) Review of Current Strategy.**

To increase overall portfolio diversification, 20% of the Combined Funds is allocated to alternative investments. Alternative investments include real estate, private equity, resource, and yield-oriented investments in which Minnesota State Board of Investment (SBI) participation is limited to commingled funds or other pooled vehicles. Charts summarizing the Board's current commitments are attached (see **Attachments A and B**).

- a. The real estate investment strategy is to establish and maintain a broadly diversified real estate portfolio comprised of investments that provide overall diversification by property type and location. The main component of this portfolio consists of investments in diversified Real Estate Investment Trusts (REITs) and closed-end commingled funds. The remaining portion of the portfolio can include investments in less diversified, more focused (specialty) commingled funds and REITs.
- b. The private equity investment strategy, which includes leveraged buyouts and venture capital, is to establish and maintain a broadly diversified private equity portfolio comprised of investments that provide diversification by industry type, stage of corporate development and location.

- c. The strategy for resource investments is to establish and maintain a portfolio of resource investment vehicles that provide an inflation hedge and additional diversification. Resource investments will include oil and gas investments, energy service industry investments and other investments that are diversified geographically and by type.
- d. The strategy for yield-oriented investments is to target funds that typically provide a current return and may have an equity component such as subordinated debt or mezzanine investments. Yield-oriented investments will provide diversification by including investments in the private equity, resource and real estate categories.

**ACTION ITEMS:**

- 1) **Investment with an existing real estate manager, TA Realty LLC (“TA Realty”), in The Realty Associates Fund XI UTP, L.P. (“Fund XI”).**

TA Realty is seeking investors for a new \$1.5 billion real estate fund, Fund XI. This fund is a successor to ten real estate funds managed by TA Realty. The SBI has invested in eight of the prior funds. Fund XI intends to invest in a diversified portfolio of properties that will attempt to generate returns through current income as well as increases in property value.

In addition to reviewing the attractiveness of the Fund XI investment offering, staff conducted on-site due diligence, reference checks, a literature database search, and reviewed the potential investor base for the fund.

More information on Fund XI is included as **Attachment C**.

**RECOMMENDATION:**

**Staff is requesting that the Investment Advisory Council concur with Staff's recommendation to commit up to \$100 million, or 20% of The Realty Associates Fund XI, whichever is less. Approval of this potential commitment is not intended to be, and does not constitute in any way, a binding or legal agreement or impose any legal obligations on the State Board of Investment and neither the State of Minnesota, the Investment Advisory Council, the State Board of Investment nor its Executive Director have any liability for reliance by TA Realty upon this approval. Until the Executive Director on behalf of the SBI executes a formal agreement, further due diligence and negotiations may result in the imposition of additional terms and conditions on TA Realty or reduction or termination of the commitment.**

**2) Investment with an existing private equity manager, CarVal Investors, LLC (“CarVal”), in CVI Credit Value Fund III L.P. (“CVI III”).**

CarVal is seeking investors for a new \$2.0 billion credit fund, CVI III. This fund is a successor to two previous credit funds managed by CarVal. The SBI invested in both of the prior credit funds. Like the prior funds, CVI III will focus on generating returns through investments in distressed and credit-intensive assets.

In addition to reviewing the attractiveness of the CVI III investment offering, staff conducted on-site due diligence, reference checks, a literature database search, and reviewed the potential investor base for the fund.

More information on the CVI III fund is included as **Attachment D**.

**RECOMMENDATION:**

**Staff is requesting that the Investment Advisory Council concur with Staff’s recommendation to commit up to \$150 million, or 20% of CVI III, whichever is less. Approval of this potential commitment is not intended to be, and does not constitute in any way, a binding or legal agreement or impose any legal obligations on the State Board of Investment and neither the State of Minnesota, the Investment Advisory Council, the State Board of Investment nor its Executive Director have any liability for reliance by CarVal upon this approval. Until the Executive Director on behalf of the SBI executes a formal agreement, further due diligence and negotiations may result in the imposition of additional terms and conditions on CarVal or reduction or termination of the commitment.**

**3) Investment with an existing private equity manager, The Blackstone Group L.P. (“Blackstone”), in Blackstone Capital Partners VII L.P. (“BCP VII”).**

Blackstone is seeking investors for a new \$17.5 billion private equity fund, BCP VII. This fund is a successor to six private equity funds managed by Blackstone. The SBI invested in four of the previous funds. Like the previous funds, this fund will seek to earn returns through a diversified portfolio of private equity investments.

In addition to reviewing the attractiveness of the Blackstone investment offering, staff conducted on-site due diligence, reference checks, a literature database search, and reviewed the potential investor base for the fund.

More information on BCP VII is included as **Attachment E**.

**RECOMMENDATION:**

**Staff is requesting that the Investment Advisory Council concur with Staff’s recommendation to commit up to \$150 million, or 20% of BCP VII, whichever is**

less. Approval of this potential commitment is not intended to be, and does not constitute in any way, a binding or legal agreement or impose any legal obligations on the State Board of Investment and neither the State of Minnesota, the Investment Advisory Council, the State Board of Investment nor its Executive Director have any liability for reliance by Blackstone upon this approval. Until the Executive Director on behalf of the SBI executes a formal agreement, further due diligence and negotiations may result in the imposition of additional terms and conditions on Blackstone or reduction or termination of the commitment.

- 4) **Investment with a new resource manager, EnerVest, Ltd. and EnerVest Institutional GP (“EnerVest”), in EnerVest Energy Institutional Fund XIV (“EnerVest XIV”).**

EnerVest is seeking investors for a new \$2.5 billion resource fund, EnerVest XIV. This fund is a successor to 13 previous resource funds managed by EnerVest. The SBI did not invest in any of the prior EnerVest funds. EnerVest seeks to generate returns through the purchase, management and development of oil and gas properties in North America.

In addition to reviewing the attractiveness of the EnerVest XIV investment offering, staff conducted on-site due diligence, reference checks, a literature database search, and reviewed the potential investor base for the fund.

More information on EnerVest XIV is included as **Attachment F**.

#### **RECOMMENDATION:**

**Staff is requesting that the Investment Advisory Council concur with Staff’s recommendation to commit up to \$100 million, or 20% of EnerVest XIV, whichever is less. Approval of this potential commitment is not intended to be, and does not constitute in any way, a binding or legal agreement or impose any legal obligations on the State Board of Investment and neither the State of Minnesota, the Investment Advisory Council, the State Board of Investment nor its Executive Director have any liability for reliance by EnerVest upon this approval. Until the Executive Director on behalf of the SBI executes a formal agreement, further due diligence and negotiations may result in the imposition of additional terms and conditions on EnerVest or reduction or termination of the commitment.**



## ATTACHMENT A

**Minnesota State Board of Investment**  
*Pooled Alternative Investments*  
**Combined Funds**  
**March 31, 2015**

Combined Funds Market Value \$60,432,181,784

Amount Available for Investment **\$4,890,270,930**

	Current Level	Target Level	Difference
Market Value (MV)	\$7,196,165,427	\$12,086,436,357	\$4,890,270,930
MV +Unfunded	\$12,006,889,019	\$21,151,263,624	\$9,144,374,605

Asset Class	Market Value	Unfunded Commitment	Total
Private Equity	\$4,488,817,103	\$2,758,214,630	\$7,247,031,733
Real Estate	\$630,929,724	\$125,209,769	\$756,139,493
Resource	\$1,321,873,352	\$1,018,732,625	\$2,340,605,977
Yield-Oriented	\$754,545,248	\$908,566,568	\$1,663,111,816
<b>Total</b>	<b>\$7,196,165,427</b>	<b>\$4,810,723,592</b>	<b>\$12,006,889,019</b>

*Cash Flows*  
**March 31, 2015**

Year	Capital Calls	Distributions	Net Invested
2015 (as of 3/31)	\$330,212,123	(\$446,256,269)	(\$116,044,146)
2014	\$1,378,984,263	(\$2,133,698,037)	(\$754,713,774)
2013	\$1,257,559,066	(\$2,522,817,494)	(\$1,265,258,428)
2012	\$882,478,614	(\$1,458,621,458)	(\$576,142,844)

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**ATTACHMENT B**  
**Minnesota State Board of Investment**

- Alternative Investments -  
As of March 31, 2015

Investment	Total Commitment	Funded Commitment	Market Value	Distributions	Unfunded Commitment	IRR %	MOIC*	Period Years
<b>I. REAL ESTATE</b>								
<b>Blackstone</b>								
Blackstone Real Estate Partners V	100,000,000	97,030,342	77,712,120	104,394,421	4,174,052	10.11	1.88	8.92
Blackstone Real Estate Partners VI	100,000,000	98,999,590	82,950,510	114,018,943	3,258,508	13.02	1.99	8.00
Blackstone Real Estate Partners VII	100,000,000	81,046,212	87,174,688	34,287,759	22,493,937	20.68	1.50	3.34
<b>Blackstone Strategic Partners (CSFB)</b>								
Strategic Partners III RE	25,000,000	25,752,810	8,681,821	5,630,459	9,006	-8.84	0.56	9.75
Strategic Partners IV RE	50,000,000	49,589,253	23,011,661	23,638,743	998,960	-1.49	0.94	6.78
<b>Colony Capital</b>								
Colony Investors II	80,000,000	78,482,328	2,600	90,022,404	0	4.68	1.15	20.00
Colony Investors III	100,000,000	100,000,000	4,622,700	172,242,105	0	14.57	1.77	17.25
<b>Silverpeak Real Estate Partners</b>								
Silverpeak Legacy Pension Partners II	75,000,000	78,148,608	33,205,050	51,959,762	8,267,485	1.84	1.09	9.75
Silverpeak Legacy Pension Partners III	150,000,000	68,992,179	21,948,010	5,545,717	81,007,821	-14.53	0.40	6.86
<b>TA Associates Realty</b>								
Realty Associates Fund VII	75,000,000	75,000,000	39,418,000	38,085,059	0	0.49	1.03	10.37
Realty Associates Fund VIII	100,000,000	100,000,000	64,656,149	19,365,961	0	-2.52	0.84	8.75
Realty Associates Fund IX	100,000,000	100,000,000	86,846,035	57,232,492	0	10.47	1.44	6.60
Realty Associates Fund X	100,000,000	95,000,000	100,700,380	7,892,743	5,000,000	11.35	1.14	3.08
<b>Real Estate Total</b>	<b>1,155,000,000</b>	<b>1,048,041,322</b>	<b>630,929,724</b>	<b>724,316,568</b>	<b>125,209,769</b>		<b>1.29</b>	
<b>II. RESOURCE</b>								
<b>Apache Corp.</b>								
1986 Net Profits Interest	30,000,000	30,000,000	2,756,040	59,395,796	0	12.22	2.07	28.25
<b>EIG Global Energy Partners</b>								
EIG Energy Fund XIV	100,000,000	108,766,259	48,856,231	83,494,608	7,007,944	6.60	1.22	7.95
EIG Energy Fund XV	150,000,000	129,957,172	114,267,676	43,615,624	20,042,828	9.41	1.21	4.81
EIG Energy Fund XVI	200,000,000	55,500,000	35,755,709	0	144,500,000	-65.41	0.64	1.55
<b>EnCap Energy</b>								
EnCap Energy Capital Fund VII	100,000,000	93,799,632	19,913,079	127,334,751	6,753,111	18.31	1.57	7.75
EnCap Energy Capital Fund VIII	100,000,000	75,754,284	66,835,781	19,095,384	24,245,716	6.71	1.13	4.50
Encap Energy Fund IX	100,000,000	45,460,429	43,276,373	243	54,539,571	-6.12	0.95	2.31
<b>Energy &amp; Minerals Group</b>								
NGP Midstream & Resources	100,000,000	99,146,651	143,955,828	106,650,473	1,167,583	24.37	2.53	8.00
The Energy & Minerals Group Fund II	100,000,000	77,639,779	136,120,872	287,474	22,590,693	31.02	1.76	3.52
The Energy & Minerals Group Fund III	200,000,000	128,335,819	125,635,120	174,250	71,677,354	-4.03	0.98	1.07
<b>Energy Capital Partners</b>								
Energy Capital Partners II-A	100,000,000	77,710,914	105,930,328	28,412,880	26,229,619	20.07	1.73	4.70
Energy Capital Partners III	200,000,000	40,795,138	34,326,498	0	159,204,862	-27.87	0.84	1.28
<b>First Reserve</b>								
First Reserve Fund X	100,000,000	100,000,000	562,108	182,429,002	0	31.08	1.83	10.41
First Reserve Fund XI	150,000,000	150,292,121	50,617,612	82,460,680	0	-2.74	0.89	8.27
First Reserve Fund XII	150,000,000	153,330,385	88,813,106	61,540,282	9,553,655	-0.63	0.98	6.41
First Reserve Fund XIII	200,000,000	22,412,551	19,345,992	2,279,302	177,587,449	-23.72	0.96	1.41
<b>NGP</b>								
Natural Gas Partners IX	150,000,000	157,974,089	69,070,845	187,991,214	5,202,410	14.98	1.63	7.44
NGP Natural Resources X	150,000,000	107,831,586	112,247,963	8,725,692	42,168,414	7.19	1.12	3.47
Natural Gas Capital Resources XI	150,000,000	2,638,585	2,535,160	0	147,361,415	-5.52	0.96	0.31
<b>Sheridan</b>								
Sheridan Production Partners I	100,000,000	100,000,000	55,109,002	82,750,000	0	8.24	1.38	8.00
Sheridan Production Partners II	100,000,000	100,000,000	45,379,030	7,000,000	0	-27.62	0.52	4.50
Sheridan Production Partners III-B	100,000,000	1,100,000	563,000	0	98,900,000	-56.43	0.51	0.31
<b>Resource Total</b>	<b>2,830,000,000</b>	<b>1,858,445,393</b>	<b>1,321,873,352</b>	<b>1,083,637,653</b>	<b>1,018,732,625</b>		<b>1.29</b>	
<b>III. YIELD-ORIENTED</b>								
<b>Audax Group</b>								
Audax Mezzanine Fund III	100,000,000	68,437,758	43,924,791	35,249,842	40,070,238	8.57	1.16	4.99
<b>Citicorp Mezzanine</b>								
CM Liquidating Partnership	100,000,000	88,029,296	5,217,087	132,324,719	0	15.95	1.56	15.41
<b>Crescent Capital Group</b>								
TCW/Crescent Mezzanine Partners III	75,000,000	68,868,042	5,823,578	156,868,939	29,701,079	35.99	2.36	14.00
<b>Gold Hill Venture Lending</b>								
Gold Hill Venture Lending	40,000,000	40,000,000	2,135,526	62,355,021	0	10.57	1.61	10.51
Gold Hill 2008	25,852,584	25,852,584	22,705,471	16,020,728	0	12.60	1.50	6.75
<b>GS Mezzanine Partners</b>								
GS Mezzanine Partners 2006 Institutional	100,000,000	74,999,888	15,045,490	115,467,794	5,000,112	4.57	1.74	8.98
GS Mezzanine Partners V	150,000,000	112,057,963	28,589,059	132,561,345	52,327,832	9.94	1.44	7.44
<b>Kohlberg Kravis Roberts</b>								
KKR Lending Partners II L.P.	75,000,000	0	0	0	75,000,000	0.00	0.00	0.07
<b>Merit Capital Partners</b>								
William Blair Mezzan. Cap. Fd. III	60,000,000	57,243,241	503,596	112,755,951	2,756,759	15.51	1.98	15.24
Merit Mezzanine Fund IV	75,000,000	70,178,571	28,015,429	73,220,957	4,821,429	8.06	1.44	10.29
Merit Mezzanine Fund V	75,000,000	57,795,918	53,012,357	14,775,256	17,204,082	6.92	1.17	5.28

**Minnesota State Board of Investment**

- Alternative Investments -

As of March 31, 2015

Investment	Total Commitment	Funded Commitment	Market Value	Distributions	Unfunded Commitment	IRR %	MOIC*	Period Years
<b>Merit Energy Partners</b>								
<i>Merit Energy Partners B</i>	24,000,000	24,000,000	20,411,135	177,126,751	0	24.49	8.23	18.75
<i>Merit Energy Partners C</i>	50,000,000	50,000,000	42,726,709	483,461,062	0	31.14	10.52	16.42
<i>Merit Energy Partners D</i>	88,000,000	70,938,303	59,293,854	295,643,618	0	23.30	5.00	13.85
<i>Merit Energy Partners E</i>	100,000,000	39,983,197	38,170,557	65,313,722	0	14.56	2.59	10.46
<i>Merit Energy Partners F</i>	100,000,000	59,522,861	39,608,699	27,251,921	0	2.35	1.12	9.02
<i>Merit Energy Partners H</i>	100,000,000	81,860,748	66,051,456	7,499,078	18,139,252	-6.33	0.90	4.16
<i>Merit Energy Partners I</i>	200,000,000	4,100,000	4,100,000	0	195,900,000	0.00	1.00	0.45
<b>Oaktree Capital Management</b>								
<i>Oaktree Opportunities Fund X, L.P.</i>	50,000,000	0	0	0	50,000,000	0.00	0.00	0.07
<i>Oaktree Opportunities Fund Xb, L.P.</i>	100,000,000	0	0	0	100,000,000	0.00	0.00	0.07
<b>Pimco Bravo**</b>								
<i>Pimco Bravo Fund OnShore Feeder I</i>	7,944,741	3,958,027	3,105,254	852,773	3,986,714	0.00	1.00	0.25
<i>Pimco Bravo Fund OnShore Feeder II</i>	7,618,670	5,243,670	5,243,670	0	2,375,000	0.00	2.47	0.25
<b>Portfolio Advisors</b>								
<i>DLJ Investment Partners II</i>	27,375,168	23,164,217	720,880	34,829,566	0	10.57	1.53	15.24
<i>DLJ Investment Partners III</i>	100,000,000	57,419,984	15,098,102	59,411,216	44,579,305	6.41	1.30	8.77
<b>Prudential Capital Partners</b>								
<i>Prudential Capital Partners I</i>	100,000,000	97,768,017	0	153,982,506	6,975,419	11.06	1.57	13.95
<i>Prudential Capital Partners II</i>	100,000,000	95,078,645	20,494,598	116,519,453	5,323,323	8.69	1.44	9.75
<i>Prudential Capital Partners III</i>	100,000,000	93,721,919	67,926,295	72,104,441	9,184,548	12.96	1.49	5.95
<i>Prudential Capital Partners IV</i>	100,000,000	48,449,682	47,920,566	3,499,387	51,550,318	6.50	1.06	3.20
<b>Summit Partners</b>								
<i>Summit Subordinated Debt Fund II</i>	45,000,000	40,500,000	159,568	93,649,473	4,500,000	56.28	2.32	17.66
<i>Summit Subordinated Debt Fund III</i>	45,000,000	42,690,965	7,007,897	53,666,733	2,850,000	8.60	1.42	11.12
<i>Summit Subordinated Debt Fund IV</i>	50,000,000	44,355,903	21,461,632	34,727,987	9,144,097	8.89	1.27	7.01
<b>TCW Asset Management</b>								
<i>TCW Direct Lending LLC</i>	100,000,000	12,241,017	8,500,000	3,741,017	91,500,000	-4.01	1.00	0.21
<b>Windjammer Capital Investors</b>								
<i>Windjammer Mezzanine &amp; Equity Fund II</i>	66,708,861	52,095,147	1,567,598	79,742,572	14,360,347	8.87	1.56	15.00
<i>Windjammer Senior Equity Fund III</i>	75,000,000	64,461,690	41,881,114	103,974,003	13,129,720	20.12	2.26	9.24
<i>Windjammer Senior Equity Fund IV</i>	100,000,000	40,403,440	38,123,281	3,798,730	60,631,737	3.05	1.04	3.10
<b>Yield-Oriented Total</b>	<b>2,712,500,024</b>	<b>1,715,420,695</b>	<b>754,545,248</b>	<b>2,722,396,563</b>	<b>911,011,309</b>		<b>2.03</b>	
<b>IV. PRIVATE EQUITY</b>								
<b>Adams Street Partners</b>								
<i>Adams Street Global Secondary Fund 5</i>	100,000,000	44,070,000	36,912,081	8,427,257	55,930,000	3.44	1.03	2.78
<b>Advent International</b>								
<i>Advent International GPE VI-A</i>	50,000,000	47,850,005	57,520,221	33,387,980	2,149,995	18.40	1.90	7.00
<i>Advent International GPE VII</i>	90,000,000	55,080,000	65,787,222	4,140,083	34,920,000	19.04	1.27	2.53
<b>Affinity Ventures</b>								
<i>Affinity Ventures IV</i>	4,000,000	4,000,000	2,331,826	1,541,970	0	-0.69	0.97	10.75
<i>Affinity Ventures V</i>	5,000,000	4,500,000	2,699,471	1,218,342	500,000	-3.90	0.87	6.74
<b>APAX Partners</b>								
<i>Apax VIII - USD</i>	200,000,000	64,727,016	69,546,460	0	135,272,984	6.10	1.07	2.06
<b>aPiori</b>								
<i>DLJ Merchant Banking Partners III</i>	125,000,000	121,880,175	5,439,948	282,306,716	3,119,825	19.42	2.36	14.50
<b>Banc Fund</b>								
<i>Banc Fund VII</i>	45,000,000	45,000,000	42,863,760	812,725	0	-0.37	0.97	10.00
<i>Banc Fund VIII</i>	98,250,000	98,250,000	130,708,558	13,949,973	0	13.11	1.47	6.93
<i>Banc Fund IX</i>	82,250,000	17,272,500	17,351,090	0	64,977,500	1.36	1.00	0.80
<b>Blackstone</b>								
<i>Blackstone Capital Partners IV</i>	70,000,000	72,205,775	19,276,930	176,030,952	2,065,533	37.33	2.70	12.72
<i>Blackstone Capital Partners V</i>	140,000,000	130,735,397	89,651,381	127,143,806	11,187,308	7.50	1.66	9.16
<i>Blackstone Capital Partners VI</i>	100,000,000	58,216,327	68,750,901	6,988,010	42,592,396	12.36	1.30	6.68
<b>Blackstone Strategic Partners (CSFB/ DLJ)</b>								
<i>DLJ Strategic Partners</i>	100,000,000	95,050,622	2,290,630	170,948,907	3,399,378	22.40	1.82	14.19
<i>Strategic Partners II-B</i>	100,000,000	83,843,190	4,069,790	156,338,282	10,356,810	35.14	1.91	11.70
<i>Strategic Partners III VC</i>	25,000,000	24,430,232	8,752,036	23,839,414	569,768	6.29	1.33	9.83
<i>Strategic Partners III-B</i>	100,000,000	76,591,271	42,678,093	74,385,664	16,566,633	7.17	1.53	9.83
<i>Strategic Partners IV-B</i>	100,000,000	90,112,549	34,185,327	110,918,838	9,887,451	13.72	1.61	7.01
<i>Strategic Partners IV VC</i>	40,500,000	39,191,505	24,701,032	32,574,898	1,143,601	10.01	1.46	6.78
<i>Strategic Partners V</i>	100,000,000	72,236,412	74,335,315	43,319,562	27,763,588	30.42	1.63	3.62
<i>Strategic Partners VI</i>	150,000,000	36,416,518	39,505,913	0	113,583,482	21.51	1.08	0.96
<b>BLUM Capital Partners</b>								
<i>Blum Strategic Partners II</i>	50,000,000	40,185,889	71,500	89,708,870	2,127,584	22.42	2.23	13.70
<i>Blum Strategic Partners III</i>	75,000,000	78,121,020	10,940,740	72,849,189	471,064	0.36	1.07	9.83
<i>Blum Strategic Partners IV</i>	150,000,000	170,916,780	78,913,395	93,378,466	5,896,033	-0.08	1.01	7.36
<b>CarVal Investors</b>								
<i>CVI Global Value Fund</i>	200,000,000	190,000,000	60,359,005	256,379,513	10,000,000	9.96	1.67	8.22
<i>CVI Credit Value Fund I</i>	100,000,000	95,000,000	121,233,298	64,481,100	5,000,000	20.22	1.95	4.50
<i>CVI Credit Value Fund A II</i>	150,000,000	142,500,000	165,284,625	428,690	7,500,000	9.74	1.16	2.42

**Minnesota State Board of Investment**

- Alternative Investments -

As of March 31, 2015

Investment	Total Commitment	Funded Commitment	Market Value	Distributions	Unfunded Commitment	IRR %	MOIC*	Period Years
<b>Chicago Growth Partners (William Blair)</b>								
<i>William Blair Capital Partners VII</i>	50,000,000	48,150,000	1,551,579	64,292,866	1,650,000	7.88	1.37	14.06
<i>Chicago Growth Partners I</i>	50,000,000	52,441,998	9,941,071	49,419,393	300,000	3.00	1.13	9.68
<i>Chicago Growth Partners II</i>	60,000,000	56,858,323	49,330,460	40,955,768	2,889,677	16.22	1.59	7.05
<b>Court Square Capital Partners</b>								
<i>Court Square Capital Partners</i>	100,000,000	80,813,422	722,315	180,966,005	1,934,741	28.91	2.25	13.30
<i>Court Square Capital Partners II</i>	175,000,000	157,785,790	103,315,878	136,817,560	18,261,408	10.19	1.52	8.57
<i>Court Square Capital Partners III</i>	175,000,000	68,073,303	63,192,095	9,314,816	113,168,888	4.91	1.07	2.83
<b>Crescendo</b>								
<i>Crescendo IV</i>	101,500,000	101,500,000	12,556,062	34,972,153	0	-7.46	0.47	15.06
<b>CVC Capital Partners</b>								
<i>CVC European Equity Partners V</i>	133,526,254	125,296,263	84,793,894	88,936,187	8,229,991	10.56	1.39	7.01
<i>CVC Capital Partners VI</i>	246,253,978	22,459,586	14,877,921	545,893	224,302,002	-39.45	0.69	1.73
<b>Diamond Castle Partners</b>								
<i>Diamond Castle Partners IV</i>	100,000,000	91,160,587	7,333,839	91,366,896	8,879,898	1.39	1.08	8.56
<b>DSV Partners</b>								
<i>DSV Partners IV</i>	10,000,000	10,000,000	31,639	39,196,082	0	10.61	3.92	29.97
<b>Elevation Partners</b>								
<i>Elevation Partners</i>	75,000,000	69,116,776	2,854,050	107,494,921	5,883,224	11.42	1.60	9.87
<b>Fox Paine &amp; Company</b>								
<i>Fox Paine Capital Fund II</i>	50,000,000	46,299,626	13,069,957	77,327,771	11,953,212	19.13	1.95	14.75
<b>GHJM Marathon Fund</b>								
<i>GHJM Marathon Fund V</i>	50,000,000	50,030,209	10,105,640	87,263,440	46,502	12.46	1.95	10.49
<i>TrailHead Fund</i>	20,000,000	10,014,187	10,452,108	6,955	9,985,813	1.84	1.04	3.10
<b>GS Capital Partners</b>								
<i>GS Capital Partners 2000</i>	50,000,000	50,000,000	3,547,133	109,659,356	0	23.45	2.26	14.58
<i>GS Capital Partners V</i>	100,000,000	73,958,901	20,276,762	181,358,802	3,441,099	17.76	2.73	10.00
<i>GS Capital Partners VI</i>	100,000,000	78,782,346	33,004,455	79,013,911	23,641,482	5.71	1.42	8.16
<b>GTCR Golder Rauner</b>								
<i>GTCR VI</i>	90,000,000	90,000,000	2,247,198	77,813,800	0	-3.85	0.89	16.75
<i>GTCR VII</i>	131,250,000	130,265,615	351,547	306,551,141	984,385	21.83	2.36	15.15
<i>GTCR IX</i>	75,000,000	69,539,933	45,331,603	74,060,530	5,460,067	13.25	1.72	8.75
<i>GTCR X</i>	100,000,000	82,948,604	104,947,121	22,381,366	17,051,396	17.63	1.54	4.31
<i>GTCR Fund XI</i>	110,000,000	16,775,000	16,524,197	0	93,225,000	-2.53	0.99	1.38
<b>HarbourVest**</b>								
<i>Dover Street VII Cayman Fund L.P.</i>	2,198,112	2,040,612	1,671,164	369,449	157,500	0.00	1.00	0.25
<i>HarbourVest Intl PE Partners V-Cayman US</i>	3,504,430	3,203,710	2,852,435	180,827	300,720	-5.41	0.95	0.25
<i>Harbourvest Intl PE Partners VI-Cayman</i>	4,160,442	2,515,880	2,382,028	0	1,644,562	-5.41	0.95	0.25
<i>HarbourVest Partners VIII Cayman Buyout</i>	4,506,711	3,856,711	3,609,812	353,042	650,000	2.86	1.03	0.25
<i>HarbourVest Partners VIII-Cayman Venture</i>	7,190,898	6,875,898	6,506,551	369,345	315,000	0.00	1.00	0.25
<b>Hellman &amp; Friedman</b>								
<i>Hellman &amp; Friedman Capital Partners V</i>	160,000,000	146,115,880	4,007,453	413,762,577	15,917,142	27.94	2.86	10.33
<i>Hellman &amp; Friedman Capital Partners VI</i>	175,000,000	168,728,257	57,490,784	258,846,784	7,394,362	12.40	1.87	8.00
<i>Hellman &amp; Friedman Capital Partners VII</i>	50,000,000	36,336,410	38,081,114	4,803,269	13,663,590	9.31	1.18	5.94
<b>IK Investment Partners</b>								
<i>IK Fund VII</i>	177,225,326	93,322,993	71,127,481	7,279,701	83,902,333	-20.17	0.84	1.54
<b>Kohlberg Kravis Roberts</b>								
<i>KKR Millennium Fund</i>	200,000,000	200,000,000	64,765,025	347,053,152	0	16.45	2.06	12.31
<i>KKR 2006 Fund</i>	200,000,000	208,782,222	156,784,577	169,704,265	11,648,497	8.42	1.56	8.51
<b>Leonard Green &amp; Partners</b>								
<i>Green Equity Investors VI</i>	200,000,000	99,391,474	104,128,313	3,192,925	101,859,543	6.79	1.08	3.04
<b>Lexington Capital Partners</b>								
<i>Lexington Capital Partners VI-B</i>	100,000,000	98,365,297	43,120,520	97,807,552	1,634,703	8.35	1.43	9.26
<i>Lexington Capital Partners VII</i>	200,000,000	155,558,883	121,706,133	103,435,832	45,525,987	17.78	1.45	5.80
<i>Lexington Capital Partners VIII</i>	150,000,000	10,500,000	10,500,000	0	139,500,000	0.00	1.00	1.07
<b>Merced Capital</b>								
<i>Merced Partners II</i>	75,000,000	63,768,881	15,357,345	112,510,597	0	24.33	2.01	8.00
<i>Merced Partners III</i>	100,000,000	100,000,000	89,447,566	38,997,107	0	7.95	1.28	4.90
<i>Merced Partners IV</i>	125,000,000	90,625,000	89,224,844	0	34,375,000	-2.06	0.98	1.72
<b>Nordic Capital</b>								
<i>Nordic Capital Fund VIII</i>	172,917,607	69,966,726	55,632,374	49,418	102,950,881	-26.92	0.80	1.55
<b>North Sky Capital**</b>								
<i>North Sky Capital LBO Fund III, LP</i>	1,070,259	720,259	720,259	25,000	350,000	3.53	1.03	0.25
<i>North Sky Capital Venture Fund III, LP</i>	1,384,080	1,277,830	1,214,080	63,750	106,250	0.00	1.02	0.25
<b>Oaktree Capital Management</b>								
<i>Oaktree Principal Fund VI</i>	100,000,000	5,000,000	5,000,000	0	95,000,000	0.00	1.00	0.25
<b>Paine &amp; Partners</b>								
<i>Paine &amp; Partners Capital Fund IV</i>	75,000,000	1,662,841	2,173	0	73,337,159	-98.55	0.00	0.30
<b>Permal Capital**</b>								
<i>Permal PE Opportunities IV, L.P.</i>	5,337,098	3,947,098	3,300,483	660,487	1,390,000	0.36	1.00	0.25

**Minnesota State Board of Investment**

- Alternative Investments -

As of March 31, 2015

Investment	Total Commitment	Funded Commitment	Market Value	Distributions	Unfunded Commitment	IRR %	MOIC*	Period Years
PERMIRA								
<i>Permira V</i>	174,027,168	68,748,354	55,539,068	174,697	105,278,815	-24.40	0.81	1.25
Public Pension Capital Management								
<i>Public Pension Capital</i>	92,000,000	0	0	0	92,000,000	0.00	0.00	0.87
RWI Ventures								
<i>RWI Ventures I</i>	7,603,265	7,603,265	493,449	6,094,262	0	-4.54	0.87	8.75
Sightline Healthcare								
<i>Sightline Healthcare Fund III</i>	20,000,000	20,000,000	668,519	6,268,468	0	-11.56	0.35	16.19
<i>Sightline Healthcare Fund IV</i>	7,700,000	7,753,673	837,772	6,502,834	0	-1.29	0.95	11.51
Silver Lake Partners								
<i>Silver Lake Partners II</i>	100,000,000	89,909,750	43,971,688	117,684,268	11,681,453	10.70	1.80	10.75
<i>Silver Lake Partners III</i>	100,000,000	85,588,441	79,757,908	78,166,538	15,397,854	18.63	1.85	8.00
<i>Silver Lake Partners IV</i>	100,000,000	21,644,250	30,983,311	92,857	78,448,607	48.00	1.44	2.51
Split Rock Partners								
<i>Split Rock Partners</i>	50,000,000	46,572,727	32,612,197	3,961,529	3,427,273	-3.92	0.79	9.91
<i>Split Rock Partners II</i>	60,000,000	50,705,000	42,011,343	7,770,098	9,295,000	-0.73	0.98	6.92
Summit Partners								
<i>Summit Ventures V</i>	25,000,000	24,125,000	98,429	33,274,796	875,000	8.11	1.38	17.00
<i>Summit Partners Growth Equity Fund VIII</i>	100,000,000	58,500,000	54,967,614	10,098,648	41,500,000	8.67	1.11	3.90
T. Rowe Price								
<i>Thoma Cressey</i>	85,786,939	85,786,939	44,953,261	50,971,880	0	10.60	1.12	
<i>Thoma Cressey Fund VI</i>	35,000,000	33,915,000	570,911	34,128,882	1,085,000	0.27	1.02	16.61
<i>Thoma Cressey Fund VII</i>	50,000,000	50,000,000	7,933,989	98,172,406	0	23.63	2.12	14.60
<i>Thoma Cressey Fund VIII</i>	70,000,000	68,932,574	50,999,766	135,801,525	770,000	16.17	2.71	8.91
Thomas, McNerney & Partners								
<i>Thomas, McNerney &amp; Partners I</i>	30,000,000	29,400,000	9,463,777	10,504,694	600,000	-7.61	0.68	12.40
<i>Thomas, McNerney &amp; Partners II</i>	50,000,000	46,125,000	59,488,950	24,574,160	3,875,000	13.31	1.82	8.75
Varde Fund								
<i>Varde Fund IX</i>	100,000,000	100,000,000	38,439,947	160,499,128	0	14.57	1.99	6.77
<i>Varde Fund X</i>	150,000,000	150,000,000	220,191,417	9,607,615	0	11.56	1.53	4.94
<i>Varde Fund XI</i>	200,000,000	180,000,000	199,700,820	0	20,000,000	7.56	1.11	1.72
Vestar Capital Partners								
<i>Vestar Capital Partners IV</i>	55,000,000	52,761,494	2,290,807	95,631,368	2,238,506	13.57	1.86	15.29
<i>Vestar Capital Partners V</i>	75,000,000	75,091,634	63,332,871	23,470,406	233,595	2.60	1.16	9.28
<i>Vestar Capital Partners VI</i>	100,000,000	34,307,585	37,024,794	4,464,332	65,692,415	16.79	1.21	3.52
Warburg Pincus								
<i>Warburg Pincus Equity Partners</i>	100,000,000	100,000,000	4,697,863	158,591,853	0	10.02	1.63	16.76
<i>Warburg Pincus Private Equity VIII</i>	100,000,000	100,000,000	37,977,497	194,539,381	0	15.30	2.33	12.96
<i>Warburg Pincus Private Equity IX</i>	100,000,000	100,000,000	25,608,356	149,110,706	0	10.15	1.75	9.68
<i>Warburg Pincus Private Equity X</i>	150,000,000	150,000,000	107,145,011	102,164,922	0	7.94	1.40	7.43
<i>Warburg Pincus Private Equity XI</i>	200,000,000	118,800,000	136,578,670	8,554,600	81,200,000	16.89	1.22	2.27
Wayzata								
<i>Wayzata Opportunities Fund</i>	100,000,000	93,180,000	24,379,503	142,295,234	6,820,000	9.34	1.79	9.28
<i>Wayzata Opportunities Fund II</i>	150,000,000	57,450,000	52,447,738	149,723,664	92,550,000	16.87	3.52	7.44
<i>Wayzata Opportunities Fund III</i>	150,000,000	38,700,000	35,846,804	136,917	111,300,000	-8.32	0.93	2.79
Welsh, Carson, Anderson & Stowe								
<i>Welsh, Carson, Anderson &amp; Stowe VIII</i>	100,000,000	100,000,000	133,893	128,668,552	0	3.12	1.29	16.69
<i>Welsh, Carson, Anderson &amp; Stowe IX</i>	125,000,000	123,750,000	18,334,098	186,559,084	1,250,000	11.18	1.66	14.76
<i>Welsh, Carson, Anderson &amp; Stowe X</i>	100,000,000	98,000,000	59,080,853	96,860,713	2,000,000	7.63	1.59	9.29
<i>Welsh, Carson, Anderson &amp; Stowe XI</i>	100,000,000	90,931,929	75,102,626	57,085,613	9,068,071	13.57	1.45	6.69
<i>Welsh, Carson, Anderson &amp; Stowe XII</i>	150,000,000	0	0	0	150,000,000	0.00	0.00	0.25
<b>Private Equity Total</b>	<b>10,454,142,567</b>	<b>7,711,499,129</b>	<b>4,488,817,103</b>	<b>7,556,886,526</b>	<b>2,756,479,535</b>		<b>1.56</b>	
<b>Alternatives Total</b>	<b>17,151,642,591</b>	<b>12,333,406,539</b>	<b>7,196,165,428</b>	<b>12,087,237,310</b>	<b>4,811,433,238</b>		<b>1.56</b>	

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

\* MOIC: Multiple of Invested Capital

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

<b>REAL ESTATE MANAGER SUMMARY PROFILE</b>
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**I. Background Data**

<i>Name of Fund:</i>	The Realty Associates Fund XI, L.P.
<i>Type of Fund:</i>	Real Estate Limited Partnership
<i>Total Fund Size:</i>	\$1.5 billion capital commitment target
<i>Fund Manager:</i>	TA Realty LLC
<i>Manager Contact:</i>	Michael A. Ruane TA Realty LLC 28 State Street, 10 <sup>th</sup> Floor Boston, MA 02109 Phone: 617-476-2700

**II. Organization and Staff**

TA Realty LLC (“TA Realty” or the “Firm”) is a Boston-based private real estate investment management firm established in 1982. Since that time, the Firm has invested and managed in excess of \$23.2 billion of real estate on behalf of endowments, foundations, public and private pension funds, and other institutional investors. During its three decades in the business, TA Realty has acquired over 910 commercial (office, industrial, and retail) and multifamily properties located in more than 35 markets throughout the U.S.

The Firm has successfully implemented its investment strategy through a series of ten value-added, closed-end, commingled funds, as well as a select number of customized core separate accounts for certain large institutions.

The Firm employs 75 professionals with extensive experience in property acquisitions, asset management, portfolio management, valuations, dispositions, finance, accounting, and operations.

**III. Investment Strategy**

TA Realty is a value investor focused on pursuing the steady growth of income produced by real estate investments, while minimizing downside risk. Since the Firm’s inception, it has maintained a consistent investment philosophy during multiple real estate and economic cycles. The Firm is focused on creating diversified real estate portfolios that will generate strong cash flow, benefit from an active asset management approach, and result in the long-term creation of value over the life of the Fund. TA Realty seeks to construct diversified portfolios of real estate investments with characteristics that allow them to dynamically add value over time, maximizing both income and property value while also protecting cash flow and moderating overall portfolio risk.

TA Realty believes there are clear benefits to diversifying across property type, geography, and investment size. Various markets and property types perform differently during real estate and economic cycles, thus diversification helps enhance risk-adjusted returns. It has been the Firm's experience that diversification can offset the effects of underperforming markets, property types or individual investments. Moreover, by targeting an average investment size of \$25-\$30 million, TA Realty also acquires more individual assets to further diversify the Fund's investment risk.

In the current environment, TA Realty believes debt maturities, bank-owned real estate, expiring closed-end funds, changing REIT strategies, estate sales, and expiring joint ventures are expected to force owners to bring quality assets to the market. These factors will provide long-term investors with a unique opportunity to acquire quality commercial real estate at favorable prices. TA Realty's deep relationships with banks, other lending institutions, senior industry professionals, and local operators are expected to yield significant investment opportunities during the acquisition period for the Fund. At TA Realty, favorable pricing is a key tenet of the Firm's acquisition strategy, which it applies consistently across all market environments and at every stage of the real estate cycle.

TA Realty seeks to buy assets priced below replacement cost with one or more of the following attributes:

- Under-leased and undermanaged assets with solid fundamentals
- Established rents that are below market levels
- Supply-constrained geographic locations
- Assets in need of repositioning and value-add strategy
- High-quality assets burdened by distressed ownership

Using its broad network of third-party local market relationships cultivated over three decades, TA Realty aims to identify opportunities to acquire such assets before they reach the general market. The Firm's ability to source investments like these is aided by its reputation as an all-cash buyer who can act quickly to close transactions.

TA Realty has successfully applied this philosophy in ten other funds across a wide variety of market and real estate cycles. As a result, the Firm is confident that, together with its low leverage discipline, primary focus on income and real estate investment fundamentals, it can generate positive results for investors in this, TA Realty's eleventh fund.



#### **IV. Investment Performance**

The historical performance of TA Realty Funds as of December 31, 2014 is presented below:

<b>Fund</b>	<b>Inception Date</b>	<b>Total Commitments</b>	<b>SBI Investment</b>	<b>Net IRR from Inception*</b>	<b>Net MOIC from Inception*</b>
Advent Realty L.P.	1987	\$164 million	\$0	2.4%	1.2
Advent Realty II L.P.	1990	\$333 million	\$0	11.6%	2.1
Realty Associates Fund III	1994	\$488 million	\$40 million	10.9%	2.1
Realty Associates Fund IV	1996	\$450 million	\$50 million	12.8%	2.2
Realty Associates Fund V	1999	\$563 million	\$50 million	10.3%	1.8
Realty Associates Fund VI	2002	\$739 million	\$50 million	8.6%	1.5
Realty Associates Fund VII †	2004	\$917 million	\$75 million	0.5%	1.0
Realty Associates Fund VIII ‡	2006	\$1,742 million	\$100 million	-2.7%	0.8
Realty Associates Fund IX ‡	2008	\$1,493 million	\$100 million	10.8%	1.4
Realty Associates Fund X ‡	2012	\$1,562 million	\$100 million	12.7%	1.1

\* Net IRR and Multiple of Invested Capital (MOIC) were provided by TA Realty. Data for Funds I-VI is actual through fund liquidation. Data for Funds VII-X assumes a theoretical liquidation of the portfolios at 12/31/14 values. Funds VII-IX are immature and, therefore, returns may not be indicative of future results.

† Fund in liquidation

‡ Active Fund

#### **V. General Partner's Investment**

The Sponsor General Partner's Capital Commitment to the Fund shall be equal to a minimum of one percent (1.0%) of the total Capital Commitments of the investors in the Fund.

#### **VI. Takedown Schedule**

Commitments are expected to be drawn as needed, with a minimum of 30 days' prior written notice; provided that not less than 10 business days' prior written notice will be required for the Fund's first draw down and any other draw down for which the Advisory Committee has consented to such shorter notice period.

#### **VII. Management Fee**

The annual percentage rates for the management fee are as follows:

- i. 0.50% of capital commitments during year one of the Partnership term rising to 1.15% of capital commitments during year three of the Partnership term,
- ii. a range of 1.25% to 1.00% of aggregate invested equity during years four through seven of the Partnership term, and
- iii. 0.60% of aggregate invested equity for all periods after year seven.

### **VIII. Distributions**

Generally, distributions of cash from operations and disposition proceeds shall be made to the Partners of the Fund in the following order and priority:

First, to return inflation adjusted contributed capital to the Partners using a sliding scale of 95% to 82.5% to the Partners and 5% to 17.5% to the Sponsor General Partner until the Partners (which includes the Sponsor General Partner in respect of its contributed capital) have been distributed an amount equal to an 8% real return (i.e., an inflation adjusted, 8% IRR computed under the formula in the Partnership Agreement);

Thereafter, 80% to the investors and 20% to the Sponsor General Partner.

*Distribution activity is more fully described in the Fund XI PPM.*

### **IX. Investment Period and Term**

Generally, the investment period will be two years from the final closing, subject to possible extension.

The term of the Partnerships will continue for a period of seven years from the date when at least 90% of all Capital Commitments of the Operating Partnership have been invested, or committed for investment in Real Estate Investments or the expiration of the capital call period. The term may be extended by up to three one-year extensions.

*\* This document is a summary of more detailed information provided in the Confidential Private Placement Memorandum (the "PPM"). It is qualified in its entirety by the more detailed information provided in the PPM.*

<b>PRIVATE EQUITY MANAGER SUMMARY PROFILE</b>
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**I. Background Data**

<b>Name of Fund:</b>	CVI Credit Value Fund III L.P.
<b>Type of Fund:</b>	Private Equity
<b>Target Fund Size:</b>	\$2.0 billion
<b>Fund Manager:</b>	CarVal Investors, LLC
<b>Manager Contact:</b>	Ryan M. Savell 9320 Excelsior Boulevard Hopkins, MN 55343 P: 952.984.3548

**II. Organization and Staff**

CarVal Investors, LLC (“CarVal” or the “Firm”) was founded by Cargill in 1987 and became an independent wholly-owned subsidiary of Cargill in 2006. CarVal has invested approximately \$76 billion in over 5,040 transactions, including opportunistic investments in corporate securities, liquidations, whole loan portfolios, real estate and real estate loans, and special opportunities (including structured credit).

CarVal is headquartered in Minneapolis, with operations in London, Luxembourg, New York, Paris, Shanghai, and Singapore. CarVal employs more than 175 people worldwide, including approximately 70 investment professionals and approximately 105 professionals dedicated to legal, tax, operational, accounting and administrative functions. The investment activities of CarVal are overseen by the senior leadership team which leads investment strategies and geographic locations. The senior leadership team members average 11 years of service with CarVal and its predecessor and are assisted by 17 investment managing directors and other investment professionals. The members of the senior leadership team are John Brice, President and CIO, Peter Vorbrich, CFO, and Gerardo Bernaldez, Seth Cohen, Lucas Detor, James Ganley, and Jody Gunderson, all of whom are Senior Managing Directors.

CarVal has had a consistent and active presence in Europe since 1993, and currently has a team of approximately 40 employees based in its London office. CarVal’s longstanding presence in Europe has allowed the Firm to pursue negotiated deal opportunities at attractive prices.

CarVal believes that its experience in alternative investment management and global presence will afford investors opportunities for attractive returns.

### **III. Investment Strategy**

CVI Credit Value Fund III LP (the "Fund") is being formed to capitalize on investment opportunities in distressed and credit-intensive assets within its four strategies of loan portfolios, corporate securities, liquidations and structured credit, as well as other special opportunities. CarVal believes there are four key themes that underpin the current market opportunity and position the Firm to take advantage of these conditions:

- Post-crisis reform: Added regulation has forced banks to sell select businesses and assets;
- The stabilization of Europe: European economies have appeared to stabilize and slowly begin to recover; however European banks are selling into the recovery because of their continued need to deleverage;
- The end of commodity super cycle: Falling commodity prices are creating headwinds in emerging market economies, which should create opportunities with over-levered corporate borrowers needing to deleverage; and
- Quantitative easing tapering: The actions of the U.S. Federal Reserve in recent years have had global impact, and the reduction in fiscal stimulus is no exception. The threat of rising interest rates has driven increased volatility in fixed income markets, which CarVal believes makes bonds risky assets again.

The changing landscape and uncertainty from global dislocation has created what CarVal believes to be compelling credit investment opportunities. CarVal believes it is well positioned to capitalize on this dislocation, as volatility creates entry points and uncorrelated opportunities within the Firm's four core strategies (loan portfolios, structured credit, liquidations and corporate securities).

CarVal believes the opportunity created by the dislocation in the market today is attractive across the Firm's four boxes. The Firm will seek to construct a portfolio that CarVal believes creates an optimal mix of risk, return and volatility across asset classes, yet anticipates that the Fund's opportunities may be more heavily weighted in developed-market loan portfolios and corporate securities in emerging markets. CarVal believes the wave of liquidations, which began with Lehman Brothers and which has been an area of focus for the Firm in recent years, is likely at its tail at this point in the cycle. However, as we enter the later stages of the economic recovery cycle, the Firm anticipates that the Fund will be well positioned for the next wave if corporate distress, restructuring, and bankruptcies.

#### **IV. Investment Performance**

Previous fund performance as of March 31, 2015 for CarVal and the SBI's investments with previous funds, where applicable, is shown below. (The SBI also invested in a Global Value Fund managed by the same investment team.)

<b>Fund</b>	<b>Inception Date</b>	<b>Total Invested Capital</b>	<b>SBI Commitment</b>	<b>Net IRR from Inception*</b>	<b>Net MOIC from Inception*</b>	<b>Fund Status</b>
CVI I	2010	\$813 million	\$100 million	20.2%	2.0	Liquidating
CVI II	2012	\$2.2 billion	\$150 million	9.7%	1.2	Active

\* Previous Fund investments may be relatively immature and, therefore, returns may not be indicative of future results. Net IRR and Multiple of Invested Capital (MOIC) were provided by State Street.

#### **V. General Partner's Investment**

The total capital commitment of certain members of the Senior Investment Team and other senior investment professionals to the Fund, the Offshore Fund will be an amount equal to at least one percent (1%) of the aggregate capital commitments.

#### **VI. Takedown Schedule**

Limited Partners will receive no less than (i) three (3) business days' advance notice prior to the drawdown in respect of the initial closing or any additional closing and (ii) ten (10) days' advance notice of any drawdown in respect of capital contributions to fund investments and meet expenses or other obligations of the Fund.

#### **VII. Management Fee**

The management fee will be paid, quarterly in arrears, at a rate equal to:

- (i) during the investment period, 1.50% per annum of capital contributions as of the end of the quarter, and
- (ii) thereafter 1.50% per annum multiplied by the lesser of (x) the net asset value of each investor's capital account as of the beginning of the quarter, or (y) such investor's aggregate capital contributions made less amounts distributed to such investor representing a return of capital.

For Limited Partners that commit \$150 million to the Fund and have committed \$250 million across all Credit Value Funds, a reduced fund management fee of 1.25% will apply.

## **VIII. Distributions**

During the investment period, investment gains will be distributed to investors, no less frequently than annually. After the investment period, investment gains will be distributed to investors, no less frequently than quarterly. Distributions (other than a final distribution) will not be required unless the Fund holds at least \$10 million in distributable cash or investment gain.

Distributions will be made in the following order and priority:

First, 100% to such investor until such investor has received an amount equal to such investor's capital contributions made to the Fund prior to the date of distribution;

Second, 100% to such investor until the excess of the cumulative distribution to such investor over such investor's capital contributions to date represents an 8% annual rate of return on its outstanding capital contributions (the "Preferred Return");

Third, 100% (or, in the case of limited partners that commit \$150 million to the Fund and have committed \$250 million across all Credit Value Funds, 50%) to the General Partner until cumulative distributions equal 20% of the sum of the cumulative distributions to such investor in excess of its capital contributions to date plus the cumulative distributions to the General Partner in respect of such investor; and

Thereafter, 80% to such investor and 20% to the General Partner.

## **IX. Key Person Termination**

An event occurring during the investment period if (A) either (i) both John Brice and Peter Vorbrich or (ii) any three (3) of John Brice, Peter Vorbich, Gerardo Bernaldez, Seth Cohen, Lucas Detor, James Ganley and Jody Gunderson fail to devote for any reason substantially all of their business time to the Fund, followed by a continuance of such event for a period of thirty (30) days, (B) there is a transfer or disposition, directly or indirectly, to Cargill of a majority of the carried interest distributions or (C) carried interest distributions received by the General Partner are paid to persons other than employees of the General Partner, the Manager and their Affiliates, the investment period of the Fund will be suspended.

**X. Investment Period and Term**

The Investment Period will last for a period of three years from final closing, subject to an extension with approval of the Investor Advisory Committee.

The Fund will terminate six years from final closing, subject to two one-year extensions at the sole discretion of the general partner. Thereafter, any extensions require consent of two-thirds majority at the interest of investors.

*\* This document is a summary of more detailed information provided in the Confidential Private Placement Memorandum (the "PPM"). It is qualified in its entirety by the more detailed information provided in the PPM and any supplemental thereto.*





<b>PRIVATE EQUITY MANAGER SUMMARY PROFILE</b>
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**I. Background Data**

<b><i>Name of Fund:</i></b>	Blackstone Capital Partners VII L.P.
<b><i>Type of Fund:</i></b>	Private Equity Limited Partnership
<b><i>Total Fund Size:</i></b>	\$17.5 billion
<b><i>Fund Manager:</i></b>	The Blackstone Group L.P.
<b><i>Manager Contact:</i></b>	Erik L. Lisher 345 Park Avenue New York, NY 10154 (212) 583-5296

**II. Organization and Staff**

The Blackstone Group L.P. (together with its affiliates, “Blackstone” or the “Firm”) is sponsoring Blackstone Capital Partners VII L.P. (“BCP VII” or the “Partnership”), a private investment fund that will focus on making control and control-oriented private equity investments on a global basis. The Partnership’s focus will generally be on large cap companies in the United States and Western Europe. Blackstone will continue to pursue its thematic, sector-based approach to private equity investing. They intend to remain a value-oriented investor with a focus on building their portfolio companies through continual investment in them and improving their operations.

Blackstone was founded in 1984 by Stephen A. Schwarzman and Peter G. Peterson and is headquartered in New York, NY. Blackstone’s alternative asset management businesses include investment vehicles focused on private equity, real estate, hedge fund solutions, credit, secondary funds and tactical opportunities. Blackstone has over 240 investment professionals and 18 offices throughout North America, Europe, Asia and the Middle East.

BCP VII will be led by Joseph Baratta and a single global Investment Committee comprised of Stephen A. Schwarzman, Hamilton E. James, Prakash Melwani, and other senior investment professionals.

**III. Investment Strategy**

Blackstone is one of the world’s most experienced investment firms, and BCP VII represents the Firm’s seventh global private equity fund. Since their first private equity fund was raised in 1987, their global private equity funds have committed over \$43 billion of capital in 191 portfolio companies with a total enterprise value of over \$350 billion through September 30, 2014.

Blackstone believes in a disciplined, value-oriented approach to private equity investing, thematic and sector-based deal sourcing, and focus on improving the operations of the businesses in which they invest. Investment decisions are made by a single, global Investment Committee consisting of the most experienced private equity investment professionals at Blackstone. The Firm pursues a flexible, opportunistic investment approach that is not anchored to any single geography, industry, and transaction type or deal size. Blackstone's investment strategies and core themes continually evolve, in anticipation of, or in response to changes in the global economy, local markets, regulation, capital flows and geopolitical trends. Blackstone seeks to generate strong unlevered returns, which allows them to maintain value discipline and create a margin of safety at inception regardless of the entry or exit cycle timing.

Blackstone invests in four key transaction types:

- 1) Large Buyouts (Total Enterprise Value greater than \$4 billion);
- 2) Mid-Cap Buyouts (TEV less than \$4 billion);
- 3) Buy & Build Platforms (multiple acquisitions behind a single management team and platform); and
- 4) Growth Equity/Development Projects (significant minority investments in mature companies and greenfield development projects in energy/power).

In addition, Blackstone has historically invested in seven key sectors: Industrials, Energy, Healthcare, Services, Consumer/Retail/Leisure, Technology/Media/Telecommunications, and Financial Services. Within each sector, Blackstone seeks to use its experience as a global private equity investor to access the most interesting and proprietary deal flow. They believe their deal sourcing abilities are enhanced by the established relationships of their portfolio company management teams and advisory network of industry executives. Blackstone seeks to diligence top-down factors that affect the macro environment and bottom-up factors that will drive returns in their investments. The investment diligence begins with understanding the market size, industry risks, and growth and penetration rates. Blackstone then diligences the underlying assets, including the company's individual product lines, cost-saving opportunities and ability to leverage Blackstone's platform. They seek to identify undervalued assets experiencing cyclical downturns, consolidation platforms within fragmented industries and companies which they believe can grow well in excess of GDP. After an investment is made, Blackstone's operating intervention team, which includes a team of Portfolio Operations professionals, seeks to implement cross-portfolio synergies and implement best practices within the functional areas of procurement, healthcare cost containment, lean process, talent management and sustainability.

Each investment that Blackstone makes must include an operating intervention plan, which can take many forms:

- Consolidation of fragmented industries
- Margin enhancement
- New product or business line development
- Geographic expansion
- Management upgrade
- Corporate carve-out
- Development capital (for energy/power investments)
- Capital expenditures program to increase and/or improve capacity

The vetting of the specific operating intervention plan is core to the Investment Committee's decision-making process. Post-closing, Blackstone monitors and periodically modifies the intervention plan (and the required resources) in order to optimize the long-term impact on the portfolio company.

Blackstone believes the following key themes will continue to drive their investment decision-making in the near- to medium-term:

- Transformational Operating Intervention: Blackstone actively targets companies in which significant equity value can be created through identifiable, executable strategic and operational change. Initiatives may focus on areas such as entry into new geographies, upgrading of existing management, pricing, cost reduction, acquisitions and/or deployment of capital to fund new businesses or product lines.
- Growth/Buy & Build Platforms: Blackstone seeks to invest in scalable businesses with superior and entrepreneurial management teams operating within large, fragmented industries. Blackstone seeks to consolidate such industries through acquisitions, driving revenue and margin expansion via synergies and scale benefits.
- Mismatch between Requirement for Capital and its Supply: Blackstone seeks out investments in sectors and companies where the need for capital greatly exceeds its readily available supply.
- Cyclical/Market Dislocation Opportunities: Blackstone's industry sector teams closely monitor industry outlooks, valuation expectations and growth potential in order to capitalize on cyclical opportunities that enable them to buy good businesses or assets at below mid-cycle levels of profit or below replacement cost.

#### **IV. Investment Performance**

Previous fund performance as of March 31, 2015 for investments in Funds I through VI is shown below:

<b>Fund</b>	<b>Inception Date</b>	<b>Total Invested Capital</b>	<b>SBI Commitment</b>	<b>Net IRR from Inception *</b>	<b>Net MOIC from Inception*</b>	<b>Fund Status</b>
BCP I	1987	\$679 million	N/A	19%	1.9x	Realized
BCP II	1993	\$1.3 billion	\$47 million	32%	2.1x	Realized
BCP III	1997	\$4.0 billion	N/A	14%	1.9x	Realized
BCP IV	2002	\$7.5 billion	\$70 million	37%	2.7x	Liquidating
BCP V	2006	\$20.1 billion	\$140 million	8%	1.7x	Liquidating
BCP VI	2011	\$8.3 billion	\$100 million	12%	1.3x	Active

\* Previous Fund investments may be relatively immature and, therefore, returns may not be indicative of future results. Net IRR and Multiple of Invested Capital (MOIC) are provided by State Street.

#### **V. General Partner's Investment**

The general partner will make aggregate capital commitments to the Partnership equal to \$500 million, plus up to an additional 7.5% to each investment on a side-by-side basis.

#### **VI. Takedown Schedule**

The general partner will draw down capital commitments from time to time as needed to fund investments and operations (including partnership expenses, organizational expenses and management fees). The general partner will give at least 10 days' written notice prior to any drawdown of unfunded capital commitments.

#### **VII. Fees**

Management fees will be payable quarterly in advance based on the following:

- a. During the investment period, 1.50% per annum charged on capital commitments.

- b. After the earlier of (i) the end of the investment period and (ii) the time management fees in connection with a successor fund have begun to accrue (the "Management Fee Step-Down Date"), the management fee will equal the product of (x) the applicable management fee percentage of the limited partner minus 0.25% multiplied by (y) the limited partner's capital contributions with respect to investments that have not been disposed of; provided that the applicable management fee percentage shall be further reduced by 0.25% per annum at the two-year anniversary of the Management Fee Step-Down Date and the end of each two-year period thereafter; provided further that the applicable management fee percentage shall not be so reduced below 0.75% per annum.

No management fee shall be charged for the six (6) month period for any limited partner that is admitted to the Partnership on the initial closing date, which is anticipated to occur during the second quarter of 2015.

Management fees will be reduced by 100% in the case of all limited partners of the Partnership's share of net break-up, topping, commitment, monitoring, transaction, directors', and organization fees.

#### **VIII. Distributions**

Distributions will be made in the following order and priority:

First, 100% to the limited partner until it receives 100% of its capital contributions.

Second, 100% to the limited partner until it has received an 8% annual return, compounded annually, on its aggregate capital contributions.

Third, 80% to the general partner and 20% to the limited partner until the general partner has received its 20% carried interest.

Thereafter, 80% to the limited partner and 20% to the general partner.

#### **IX. Key-Person Termination**

If at any time prior to the end of the investment period, either (a) two of three of Stephen A. Schwarzman, Hamilton E. James and Joseph Baratta or (b) a majority of the sixteen Senior Managing Directors as identified by the general partner on or prior to the initial closing date (the "Designated SMDs") cease to devote the Required Involvement (as defined below) (either, a "Key Person Event"), the general partner will promptly give notice to the limited partners. Thereafter, the investment period will be terminated 180 days after such notice, unless, on or before such 180<sup>th</sup> day, the consent of the majority of the limited partners is obtained to continue the investment period (a "Key Person Vote"). Prior to the occurrence of a Key Person Event, the general partner may specifically replace a person referred to above so long as such replacement person is approved by 66 2/3% of the members of the limited partner advisory committee.

“Required Involvement” shall mean (i) with respect to Stephen A. Schwarzman and Hamilton E. James, devoting substantially all of their business time to Blackstone, and (ii) with respect to Joseph Baratta and the other Designated SMDs, devoting substantially all of their business time to businesses related to the Partnership, the parallel funds, any successor and predecessor funds thereto, and any related entities and Blackstone’s corporate private equity activities generally.

**X. *Investment Period and Term***

The investment period for Fund VII terminates six years after the investment period start date, which is anticipated to occur during the second quarter of 2015. The fund term is eleven years, subject to two one-year extensions if approved by 66 2/3% of the members of the limited partner advisory committee.

*\* This document is a summary of more detailed information provided in the Confidential Private Placement Memorandum (the “PPM”). It is qualified in its entirety by the more detailed information provided in the PPM.*

<b>RESOURCE MANAGER SUMMARY PROFILE</b>
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**I. Background Data**

<b>Name of Fund:</b>	EnerVest Energy Institutional Fund XIV A
<b>Type of Fund:</b>	Delaware Limited Partnership
<b>Target Fund Size:</b>	\$2.5 billion
<b>Fund Manager:</b>	EnerVest, Ltd. and EnerVest Institutional GP
<b>Manager Contact:</b>	Rainey Janke 1001 Fannin, Suite 800 Houston, TX 77002 713-495-6503

**II. Organization and Staff**

EnerVest was formed in 1992 by John Walker and Jon Rex Jones to acquire, develop, operate and manage oil and gas properties. Along with CEO John Walker, key members of the EnerVest team include Jim Vanderhider, Phil DeLozier, Ken Mariani, Steve McDaniel, Dave Kyte and Jud Walker. Based in Houston, the firm currently has an interest in approximately 36,000 wells in 15 states. EnerVest and its affiliates operate approximately 28,000 of these wells (representing 90% of the firm's asset value), which make EnerVest the largest upstream operating GP in the United States. In total EnerVest has 1,280 employees, of which 90% work for EnerVest Operating.

A key distinction of EnerVest is that it manages and operates the assets owned through the funds. This approach differs from other funds that serve primarily as capital providers by financing the acquisition and development activities of independent portfolio companies. This direct investing strategy eliminates the layer of fees and promotes that typically occur at the portfolio company level.

**III. Investment Strategy**

The strategy for Fund XIV will be the same as prior EnerVest funds. EnerVest acquires and operates oil and gas properties, aggressively manages and develops the properties, reduces costs, and sells the assets. On occasion Fund XIV may also invest in equity interests of companies in order to acquire their assets. Fund XIV will focus on building a portfolio of properties with a base of proved developed production (PDP) of approximately 60% of portfolio reserves, but with proved and probable reserves possessing significant development potential. The objective of this strategy will be to generate current return from the producing reserves and provide attractive incremental returns from the development of the non-producing reserves.

Fund XIV will focus primarily on asset acquisitions of long-lived, onshore proved and probable oil and gas reserves in North America with meaningful development upside. In particular, the Fund will primarily invest in properties that give EnerVest and/or its affiliates the right to serve as operator, and, consequently, the ability to control the timing and implementation of development activities and other initiatives focused on increasing production, cash flows, and reserves. The Fund will target transactions with a value of between \$100 million to \$500 million, but may opportunistically pursue larger transactions.

Deals are sourced from key relationships with advisors and producers. Before investment each deal is subjected to due diligence with a focus on value and ultimate return potential. Valuation is limited to currently producing reserves leaving any additional production through technological advancement, efficiencies or expansion as an upside. The success of this strategy relies on the execution of the management team's business plan rather than changing commodity prices. Approximately 500 deals are screened each year, 35-50 are fully evaluated and only 15-20% are won in a bidding process. Each fund has 10-15 anchor investments.

During the life of an investment EnerVest creates value through a variety of ways, including partnering with other firms, creating operating efficiencies by building concentrated asset bases in a region, and focusing on extensive development drilling programs. Seven regional asset portfolio teams focus on production and cash flow growth, pursue field development and accretive add-on acquisitions, and embrace technological solutions with service providers. Hedging is used to mitigate commodity risk.

Finally, an exit that optimizes IRR is achieved by selling assets at a premium as large packages, during favorable market conditions and/or through industry relationships.

#### IV. *Investment Performance*

The historical investment performance of EnerVest as of Dec 31, 2014 is presented below:

<b>Fund</b>	<b>Inception Date</b>	<b>Total Commitments (in millions)</b>	<b>MSBI Investment (in millions)</b>	<b>Net IRR from Inception*</b>	<b>Net MOIC from Inception *</b>	<b>Fund Status</b>
Single Investor Partnerships	1994	\$382	\$0	26%	2.0x	Realized
EnerVest, LP	1998	\$196	\$0	15%	1.7x	Realized
EnerVest IX	2001	\$239	\$0	69%	8.0x	Realized
EnerVest X	2005	\$647	\$0	8%	1.5x	Liquidating
EnerVest XI	2007	\$1,485	\$0	19%	2.4x	Liquidating
EnerVest XII	2010	\$2,400	\$0	7%	1.2x	Liquidating
EnerVest XIII	2012	\$3,300	\$0	-	-	Active

\* Previous Fund investments may be relatively immature and, therefore, returns may not be indicative of future results. Net IRR and Multiple of Invested Capital (MOIC) were provided by EnerVest.



## **V. General Partner's Investment**

The General Partner will make a cash commitment equal to 1.5% of the aggregate commitments. EnerVest will indirectly own 100% of the interests of the WI Fund. This structure resulted in the General Partners contributing 2.7% of the aggregate capital commitments made by all of the investors in Fund XIII.

## **VI. Takedown Schedule**

Limited Partners will receive 7 business days' advance notice prior to each investment capital call.

## **VII. Management Fee**

The management fee will be 2% of aggregate commitments during the commitment period, paid quarterly in advance. Following the commitment period the fee will be 1.5% of aggregate capital contributions, less amounts distributed to partners as a return of capital and any write down or write off of an investment.

## **VIII. Distributions**

Distributions will be made in the following order and priority:

First, 100% to the limited partner until it receives 100% of its capital contributions.

Second, 100% to the limited partner until it has received a 9% annual return, compounded annually, on its aggregate capital contributions.

Third, 80% to the General Partner and 20% to the limited partner until the General Partner has received its 20% carried interest.

Thereafter, 80% to the limited partner and 20% to the General Partner.

## **IX. Investment Period and Term**

The Initial Closing occurred on April 24, 2015 and the Final Closing will occur within 120 days.

The investment period will be five years from the initial closing.

The term of the Partnership will be 10 years, but may be extended for two consecutive one-year periods at the election of the General Partner and approval of the Advisory Board.

**X. Key-Person Event**

A temporary expiration of the investment period will occur if either (A) any two of John B. Walker, Kenneth Mariani and James M. Vanderhider or (B) any four of: the three aforementioned Principals, Judson B. Walker, Steven A. McDaniel, Phil C. DeLozier or David G. Kyte fail to devote sufficient time to Fund XIV. If, within 120 days of the Key Person Event, 66 2/3% of Investors by interest do not approve a management plan submitted by the General Partner, the investment period will permanently expire

*\* This document is a summary of more detailed information provided in the Confidential Private Placement Memorandum (the "PPM"). It is qualified in its entirety by the more detailed information provided in the PPM.*

**TAB**

**E**

DATE: May 12, 2015

TO: Members, Investment Advisory Council

FROM: SBI Staff

**SUBJECT: Public Markets, Non-Retirement, and Defined Contribution Report**

This section of the report provides a brief overview of economic and capital market performance as it pertains to the SBI portfolio. Also, included in this section is a summary of investment manager activity and performance summaries of the equity and fixed income managers in the SBI portfolio.

Also, we have included commentary and performance for the non-retirement managers, deferred compensation plan mutual funds, and performance for options within the Minnesota College Savings Plan.

The report includes the following sections:

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• Public Markets Manager Activity	5
• Non-Retirement Manager Update	7
• Deferred Compensation Manager Update	8
• Manager Performance Summaries	A-1

## Public Markets Economic and Market Overview First Quarter 2015

### Overview

Three months after the Federal Open Market Committee's decision to conclude its asset purchase program in October, a fresh QE plan was launched across the Atlantic. In January, the European Central Bank's executive board proposed buying approximately €60 billion (\$70 billion\*) a month in bonds for at least a year. The Bank plans to purchase Eurozone government bonds, debt instruments issued by European Union institutions, and private debt instruments. European Markets reacted positively to the news as evidenced by the *MSCI Europe ex UK Index* advancing by 19.1% (in local terms) in the quarter.

Domestically, the price of oil and speculation on the timeline of an interest rate increase dominated headlines and conversation amongst experts and pundits. Minutes from the Federal Open Market Committee meeting in March show that meeting participants differ over the appropriate timing of a Fed Funds rate increase. Several members suggested a June increase given the positive economic data and outlook, while others pointed to subdued inflation due to energy prices and the appreciating dollar as reasons to wait until 2016. However, members reiterated their expectation that, even when employment and inflation reach targeted levels, the Fed Funds rate may remain below normal long-term levels for some time.

For the third consecutive quarter, the price of a light, sweet crude oil futures contract declined. In a volatile quarter, the price per barrel dipped to a 52-week low of \$43.46/barrel on March 17<sup>th</sup> before rebounding to close the quarter at \$47.60/barrel. American consumers benefitted again from the sell-off as the price for a gallon of gasoline was below \$2.15 per gallon for six straight weeks.

In financial markets, listed equity markets advanced for the quarter. The Health Care and Consumer Discretionary sectors carried the *Russell 3000 Index* to a quarterly gain of 1.8%, compensating for the underperforming Energy and Utilities sectors. Globally, international markets, as represented by the *MSCI World ex-US Index*, increased 3.8% and the *MSCI Emerging Markets Free (net) Index* added 2.2%.

In Fixed Income markets, the *Barclays Aggregate Index* gained 1.6% in a choppy quarter. Rates were fairly volatile during the quarter as strong jobs reports in January and February pushed rates higher, but the trend reversed in March after the release of weak economic data. 30-year U.S. Treasury yields fell from 2.8% to 2.5% and 10-year yields slid from 2.2% to 1.9%. Convertibles, coming off a strong performance in 2014, added 3.3% for the quarter, followed by High Yield, which increased by 2.5%.

### SBI Portfolio

Quarterly performance for the SBI's portfolio outpaced the overall markets. For the equity allocation, domestic equities returned 2.2%, which was 40 basis points (bps) greater than the *Russell 3000 Index*, and international and emerging market stocks advanced by 3.8%, which bested

its aggregate benchmark by 30 bps. The fixed income allocation added 1.7%, which slightly beat the *Barclays Aggregate Index* by 10 bps.

### **Domestic Equity**

Domestically, large cap growth managers slightly trailed the *Russell 1000 Growth Index* as poor stock selection, particularly in the Consumer Discretionary sector, was a drag on performance. Conversely, large cap value managers beat the *Russell 1000 Value Index* for the quarter. Stock selection, particularly in the Healthcare sector, boosted returns. Within small cap equity, active small cap growth managers collectively exceeded the *Russell 2000 Growth Index*. Stock selection in the Healthcare sector set the pace, while stock picking in the Consumer Staples, Financials, and Consumer Discretionary sectors also contributed to the outperformance. It was a similar story for active small cap value managers as the overall sleeve outpaced the *Russell 2000 Value Index* for the quarter. Stock selection in the Financials sector provided the largest boost to performance, while stock picking in the out-of-favor Energy sector also buoyed relative returns.

### **International Equity**

International equities posted strong returns in local currencies, but the appreciating U.S. dollar meant returns in USD terms were smaller. Active managers outperformed the *MSCI World ex-USA Index (net)* for the quarter, as stock selection and sector allocation added alpha. Sector allocation was positive in Utilities, Energy, and Consumer Discretionary. Stock selection was positive in Consumer Staples, Materials, and Energy. Semi-passive managers outperformed the benchmark due to stock selection in Healthcare, Energy and Consumer Discretionary.

### **Emerging Markets Equity**

Within Emerging Markets, the portfolio underperformed *MSCI Emerging Markets Free (net) Index*. During the quarter, active managers detracted from overall performance due to poor stock selection in China, Korea, and the Information Technology sector. The passive Emerging Markets portfolio produced negative tracking error primarily due to an underweight in restricted stocks (Iran and Sudan) in the benchmark, coupled with the subsequent overweight positions in non-restricted names.

### **Fixed Income**

For the SBI's Fixed Income allocation, both the active and semi-passive managers topped the *Barclays Aggregate Index* for the quarter. Security selection in the Corporate sector, combined with an overweight to CMBS positions, contributed to the outperformance. An overall underweight to duration in the aggregate portfolio detracted from performance as rates fell throughout March.

*Sources: Bloomberg, FactSet, J.P. Morgan, Minutes of the Federal Open Market Committee, MSCI, U.S. Energy Information Administration, Wall Street Journal*

\* Estimated USD equivalent given a \$1.161/€ foreign exchange rate on January 21, 2015.

## Public Markets Manager Activity First Quarter 2015

### Manager Summary

For the quarter, the vast majority of investment managers performed in line with our expectations and no commentary was necessary. There were some noteworthy manager developments for the quarter involving McKinley, Mellon Capital, PIMCO, and SSgA.

#### McKinley

The firm has experienced asset losses and staff turnover in past few years. Despite these challenges, performance has improved over recent periods as momentum has regained favor for the domestic small cap growth and international developed equity portfolios. Staff will continue to monitor.

#### Mellon Capital

On March 11, 2015, the SBI was informed that the Head of Active Equity Strategies, Warren Chiang, was resigning from his position effective March 20, 2015. In this position, Mr. Chiang was responsible for managing a team of portfolio managers and researchers that worked on all U.S. and international enhanced and active equity funds. As a reminder, Mellon uses a team approach to manage a quantitative, semi-passive, large cap portfolio for the SBI that is, by design, not overly reliant on any one individual. Staff does not expect any material change to the process, but will continue to monitor the portfolio.

#### PIMCO

In February, PIMCO's Chief Economist, Paul McCulley, stepped down from his position. Mr. McCulley had returned to PIMCO on a part time basis in May 2014 after the departure of Mohamed El-Erian. PIMCO hired former Morgan Stanley chief economist, Joachim Fels, to replace McCulley as its new economist. Staff has no concerns with the change, but will monitor the situation. Additionally, on Wednesday, April 29<sup>th</sup>, PIMCO announced that former Federal Reserve Chairman Ben Bernanke would become a Senior Advisor to the firm contributing his economic expertise to the firm's investment process.

#### SSgA

In April 2015, Ron O'Hanley was named CEO and President of SSgA. He succeeded Scott Powers who announced his intention to retire from the firm. Staff has no concerns with the change, but will monitor the situation.

## 2015 Manager Meetings

Staff continued with the SBI Stock and Bond Manager Annual Reviews. The second quarter manager reviews are noted below.

### Investment Manager

- AQR Capital Management, LLC
- Pyramis Global Advisors Trust Company
- State Street Global Advisors (SSgA)
- Goldman Sachs Asset Management
- BlackRock Financial Management, Inc.
- Barrow, Hanley, Mewhinney & Strauss, Inc.
- Earnest Partners, LLC
- LSV Asset Management
- Goldman Sachs Asset Management, L.P.
- Next Century Growth Investors, LLC
- Peregrine Capital Management, Inc.

### Asset Class

International Equity  
International Equity  
International Equity  
Fixed Income  
Fixed Income  
Domestic Equity  
Domestic Equity  
Domestic Equity  
Domestic Equity  
Domestic Equity  
Domestic Equity



## **Non-Retirement Manager Update First Quarter 2015**

### **Domestic Equities**

#### **GE Asset Management**

The performance in the domestic equity portfolio lagged its benchmark, the S&P 500, for the quarter and for the year. Stock selection in information technology, energy, and financials were the key performance detractors for the quarter and year. An overweight in financials also impacted returns for the quarter.

#### **Internal Stock Pool**

The performance in the domestic equity portfolio tracked the S&P 500 return for the quarter and slightly outperformed for the year.

### **Fixed Income**

#### **RBC Global Asset Management**

The fixed income portfolio slightly underperformed its benchmark, the Barclays Intermediate Government, for the quarter and for the year. The underperformance for the quarter and the year was primarily from the portfolio's slightly shorter duration relative to the benchmark.

#### **Internal Bond Pool**

The performance in the bond portfolio outperformed its benchmark for the quarter and for the year. For the quarter, an overweight to corporate bonds contributed to performance. For the year, relative performance benefited from a flattening yield curve position and security selection.

## **Deferred Compensation Managers First Quarter 2015**

### **Domestic Equities**

#### **Janus Twenty**

The domestic equity portfolio underperformed its benchmark, the S&P 500, for the quarter and for the year. Stock selection has the largest impact on performance due to the portfolio's concentrated investment strategy. Stocks in information technology, consumer discretionary and the consumer staples sectors were the largest detractors to performance for the quarter and the year.

#### **Vanguard Institutional Index Plus**

The domestic equity portfolio tracked the return of the S&P 500 Index for the quarter and for the year.

#### **Vanguard Mid-Cap Index**

The mid-cap equity portfolio tracked the benchmark, CRSP US Mid Cap Index, for the quarter and slightly lagged for the year.

#### **T. Rowe Price**

The small cap equity portfolio underperformed the benchmark, the Russell 2000, for the quarter but outperformed for the year. For the year, positive stock selection in healthcare, industrial, and consumer discretionary sectors benefited returns.

### **International Equities**

#### **Fidelity Diversified International**

The portfolio outperformed the benchmark, the MSCI EAFE Free, for the quarter and the year. Sector allocation contributed to relative outperformance for the quarter and the year with an overweight in health care and underweight positions in the utilities and energy sectors. Stock selection was also positive for the quarter and the year primarily from financials and health care holdings.

#### **Vanguard Total International Stock Index**

The portfolio outperformed its benchmark, the FTSE Global All Cap ex US Index, for the quarter and underperformed for the year. Tracking error for this portfolio is due to fair value pricing. The price adjustments should even out over time.

## **Fixed Income**

### **Dodge & Cox Income Fund**

The portfolio underperformed the benchmark, the Barclays Aggregate, for the quarter and the year primarily from the portfolio's defensive duration positioning. The quarter return also lagged from exposure to Brazil-related credit holdings that experienced headline risk and a credit rating downgrade.

### **Vanguard Total Bond Market Index**

The portfolio tracked the benchmark, the Barclays Aggregate Index, for the quarter and slightly lagged for the year.

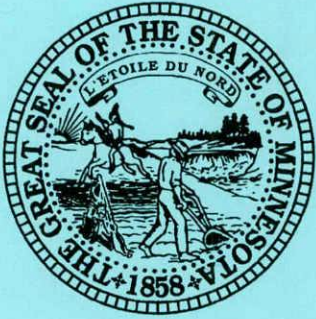
## **Balanced and Conservative Options**

### **Vanguard Balanced**

The portfolio tracked its benchmark, a combined return of 60% CRSP US total Market and 40% Barclays Aggregate, for the quarter and the year.

### **Galliard Capital Management**

The stable value portfolio outperformed its benchmark, the 3 Year Constant Maturity Treasury plus 0.45%, for the quarter and the year. For the quarter, the portfolio benefited from holdings in intermediate corporate bonds, and high quality ABS and CMBS. For the year, an overweight to non-Treasury sectors and positions in intermediate corporate bonds continued to benefit returns.



# STATE BOARD OF INVESTMENT

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## Domestic Equity Manager Performance Summaries

First Quarter 2015



# MINNESOTA STATE BOARD OF INVESTMENT

## Domestic Equity

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**COMBINED RETIREMENT FUNDS  
ACTIVE DOMESTIC EQUITY MANAGERS**

**Periods Ended March 31, 2015**

	Last Quarter	Last Year	Last 3 Years	Last 5 Years
Russell 1000 Growth Aggregate	3.2	12.5	16.3	16.2
<i>Russell 1000 Growth Index</i>	3.8	16.1	16.3	15.6
Russell 1000 Value Aggregate	0.9	10.6	17.3	13.8
<i>Russell 1000 Value Index</i>	-0.7	9.3	16.4	13.8
Russell 2000 Growth Aggregate	10.2	7.5	15.5	14.7
<i>Russell 2000 Growth Index</i>	6.6	12.1	17.7	16.6
Russell 2000 Value Aggregate	3.1	8.8	17.8	16.0
<i>Russell 2000 Value Index</i>	2.0	4.4	14.8	12.5
<b>Active Manager Aggregate</b>	3.0	10.7	16.5	14.8
<i>Benchmark</i>	2.1	11.3	16.3	14.6
<b>Semi-Passive Aggregate</b>	1.9	13.7	17.1	15.2
<i>Benchmark</i>	1.6	12.7	16.4	14.7
<b>Passive Manager (BlackRock)</b>	1.8	12.4	16.4	14.7
<i>Russell 3000 Index</i>	1.8	12.4	16.4	14.7
<b>Total Aggregate</b>	2.2	12.4	16.8	14.9
<i>Russell 3000 Index</i>	1.8	12.4	16.4	14.7

**Calendar Years**

	2014	2013	2012	2011	2010
Russell 1000 Growth Aggregate	9.6	42.0	15.5	-0.4	19.3
<i>Russell 1000 Growth Index</i>	13.0	33.5	15.3	2.6	16.7
Russell 1000 Value Aggregate	13.1	36.5	16.9	-2.1	15.0
<i>Russell 1000 Value Index</i>	13.5	32.5	17.5	0.4	15.5
Russell 2000 Growth Aggregate	-3.4	47.2	12.0	-5.6	29.1
<i>Russell 2000 Growth Index</i>	5.6	43.3	14.6	-2.9	29.1
Russell 2000 Value Aggregate	7.5	40.8	19.6	-4.5	30.5
<i>Russell 2000 Value Index</i>	4.2	34.5	18.1	-5.5	24.5
<b>Active Manager Aggregate</b>	9.3	40.2	15.4	-2.7	19.7
<i>Active Manager Benchmark</i>	11.0	34.7	16.3	0.0	18.7
<b>Semi-Passive Aggregate</b>	14.2	33.2	17.7	2.2	15.2
<i>Benchmark</i>	13.2	33.1	16.4	1.5	16.1
<b>Passive Manager (BlackRock)</b>	12.6	33.5	16.4	0.8	17.2
<i>Russell 3000 Index</i>	12.6	33.6	16.4	1.0	16.9
<b>Total Aggregate</b>	12.3	35.1	16.6	0.4	17.1
<i>Russell 3000 Index</i>	12.6	33.6	16.4	1.0	16.9



**COMBINED RETIREMENT FUNDS  
ACTIVE DOMESTIC EQUITY MANAGERS**

**Periods Ended March 2015**

**Performance versus Russell Style Benchmarks for All Periods**

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Since Inception(1)
<b>Russell 1000 Growth Index</b>	<b>3.8</b>	<b>16.1</b>	<b>16.3</b>	<b>15.6</b>	--
INTECH	5.4	17.3	17.5	16.5	8.1
<i>Benchmark</i>	3.8	16.1	16.3	15.6	8.7
Jacobs Levy	4.3	16.4	16.9	16.9	7.7
<i>Benchmark</i>	3.8	16.1	16.3	15.6	8.7
Sands Capital	0.6	9.1	16.0	19.6	10.5
<i>Benchmark</i>	3.8	16.1	16.3	15.6	8.7
Winslow-Large Cap	3.2	16.0	15.1	15.1	9.8
<i>Benchmark</i>	3.8	16.1	16.3	15.6	8.7
Zevenbergen Capital	2.7	6.0	16.1	14.4	10.3
<i>Benchmark</i>	3.8	16.1	16.3	15.6	9.2
<b>Aggregate</b>	<b>3.2</b>	<b>12.5</b>	<b>16.3</b>	<b>16.2</b>	
<b>Russell 1000 Value Index</b>	<b>-0.7</b>	<b>9.3</b>	<b>16.4</b>	<b>13.8</b>	--
Barrow, Hanley	0.5	9.7	17.1	13.5	8.2
<i>Benchmark</i>	-0.7	9.3	16.4	13.8	7.7
Earnest Partners	1.7	13.7	14.7	12.1	6.5
<i>Benchmark</i>	-0.7	9.3	16.4	13.8	7.0
LSV Asset Mgmt.	1.0	11.2	20.0	15.7	9.3
<i>Benchmark</i>	-0.7	9.3	16.4	13.8	7.7
Systematic Financial Mgmt.	0.4	8.6	15.8	12.7	7.7
<i>Benchmark</i>	-0.7	9.3	16.4	13.8	7.7
<b>Aggregate</b>	<b>0.9</b>	<b>10.6</b>	<b>17.3</b>	<b>13.8</b>	

(1) Since inception by the SBI. Time period varies for each manager.

Note: All aggregates include the performance of terminated managers

**COMBINED RETIREMENT FUNDS  
ACTIVE DOMESTIC EQUITY MANAGERS**

**Periods Ended March 2015**

**Performance versus Russell Style Benchmarks for All Periods**

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Since Inception (1)
<b>Small Cap</b>					
<b>Russell 2000 Growth Index</b>	<b>6.6</b>	<b>12.1</b>	<b>17.7</b>	<b>16.6</b>	--
McKinley Capital	10.1	11.1	22.2	18.3	8.0
<i>Benchmark</i>	<i>6.6</i>	<i>12.1</i>	<i>17.7</i>	<i>16.6</i>	<i>9.5</i>
Next Century Growth	10.3	3.9	11.3	12.7	3.4
<i>Benchmark</i>	<i>6.6</i>	<i>12.1</i>	<i>17.7</i>	<i>16.6</i>	<i>4.8</i>
<b>Aggregate</b>	<b>10.2</b>	<b>7.5</b>	<b>15.5</b>	<b>14.7</b>	
<b>Russell 2000 Value Index</b>					
<b>Russell 2000 Value Index</b>	<b>2.0</b>	<b>4.4</b>	<b>14.8</b>	<b>12.5</b>	--
Goldman Sachs	3.1	8.5	17.2	16.1	10.3
<i>Benchmark</i>	<i>2.0</i>	<i>4.4</i>	<i>14.8</i>	<i>12.5</i>	<i>8.2</i>
Hotchkis & Wiley	2.0	12.3	21.9	18.2	9.7
<i>Benchmark</i>	<i>2.0</i>	<i>4.4</i>	<i>14.8</i>	<i>12.5</i>	<i>8.2</i>
Martingale Asset Mgmt.	4.7	9.8	19.6	16.5	8.3
<i>Benchmark</i>	<i>2.0</i>	<i>4.4</i>	<i>14.8</i>	<i>12.5</i>	<i>8.2</i>
Peregrine Capital	3.0	5.9	14.7	14.2	11.0
<i>Benchmark</i>	<i>2.0</i>	<i>4.4</i>	<i>14.8</i>	<i>12.5</i>	<i>10.1</i>
<b>Aggregate</b>	<b>3.1</b>	<b>8.8</b>	<b>17.8</b>	<b>16.0</b>	
<b>Active Mgr. Aggregate (2)</b>	<b>3.0</b>	<b>10.7</b>	<b>16.5</b>	<b>14.8</b>	

(1) Since inception by the SBI. Time period varies for each manager.

(2) The Active Manager Aggregate Benchmark is the aggregate of the weighted average of the active manager benchmarks and is not the Russell 3000.

Note: All aggregates include the performance of terminated managers

**COMBINED RETIREMENT FUNDS  
DOMESTIC EQUITY MANAGERS  
Periods Ended March 2015  
Versus Manager Benchmarks**

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Since Inception(1)
<b>Semi-Passive Managers (2)</b>					
BlackRock Institutional	2.2	14.4	17.2	15.3	9.7
<i>Benchmark</i>	1.6	12.7	16.4	14.7	9.4
INTECH	2.0	11.8	16.4	14.7	14.7
<i>Benchmark</i>	1.6	12.7	16.4	14.7	14.7
JP Morgan	1.4	13.6	17.5	15.3	9.7
<i>Benchmark</i>	1.6	12.7	16.4	14.7	9.4
Mellon Capital	2.1	15.0	17.3	15.6	9.1
<i>Benchmark</i>	1.6	12.7	16.4	14.7	9.4
<b>Semi-Passive Aggregate (R1000)</b>	<b>1.9</b>	<b>13.7</b>	<b>17.1</b>	<b>15.2</b>	
<b>Passive Manager (R3000)</b>					
BlackRock Institutional	1.8	12.4	16.4	14.7	9.1
<i>Benchmark</i>	1.8	12.4	16.4	14.7	9.0
<b>Total Aggregate (3)</b>	<b>2.2</b>	<b>12.4</b>	<b>16.8</b>	<b>14.9</b>	<b>10.5</b>
<i>Benchmark</i>	1.8	12.4	16.4	14.7	10.7
<i>Russell 3000 Index</i>	1.8	12.4	16.4	14.7	11.0
<i>Russell 1000 Index</i>	1.6	12.7	16.4	14.7	11.1
<i>Russell 2000 Index</i>	4.3	8.2	16.3	14.6	9.7

(1) Since retention by the SBI. Time period varies for each manager.

(2) Semi-Passive managers' benchmark is the Russell 1000 index beginning 1/1/04 and was the Completeness Fund benchmark prior to 1/1/04.

(3) The Total Aggregate benchmark is the Russell 3000 effective 10/1/03. From 7/1/99 to 9/30/03, it was the Wilshire 5000 Investable Index. From 11/1/93 to 6/30/99, the target was the Wilshire 5000 as reported with no adjustments. Prior to 11/1/93, the Wilshire 5000 was adjusted to reflect SBI mandated restrictions, which included liquor and tobacco, American Home Products and South Africa.

Note: All aggregates include the performance of terminated managers.

**COMBINED RETIREMENT FUNDS  
DOMESTIC EQUITY MANAGERS**

	March 31, 2015		December 31, 2014	
	Market Value	Percent	Market Value	Percent
<b>Russell 1000 Growth Aggregate</b>	<b>\$2,971,562,468</b>	<b>10.0%</b>	<b>\$2,880,098,945</b>	<b>9.7%</b>
INTECH	\$619,544,923	2.1%	\$587,683,894	2.0%
Jacobs Levy	\$711,647,175	2.4%	\$682,462,223	2.3%
Sands Capital	\$699,793,568	2.4%	\$695,508,374	2.4%
Winslow-Large Cap	\$316,899,187	1.1%	\$307,025,537	1.0%
Zevenbergen Capital	\$623,677,615	2.1%	\$607,418,917	2.1%
<b>Russell 1000 Value Aggregate</b>	<b>\$3,039,990,343</b>	<b>10.3%</b>	<b>\$3,014,224,554</b>	<b>10.2%</b>
Barrow Hanley	\$839,452,455	2.8%	\$835,071,337	2.8%
Earnest Partners	\$575,157,031	1.9%	\$565,730,766	1.9%
LSV Asset Mgmt.	\$850,708,432	2.9%	\$842,112,563	2.8%
Systematic Financial Mgmt.	\$774,672,424	2.6%	\$771,309,888	2.6%
<b>Russell 2000 Growth Aggregate</b>	<b>\$831,264,455</b>	<b>2.8%</b>	<b>\$754,327,910</b>	<b>2.6%</b>
McKinley Capital	\$426,038,197	1.4%	\$386,855,528	1.3%
Next Century Growth	\$405,226,258	1.4%	\$367,472,382	1.2%
<b>Russell 2000 Value Aggregate</b>	<b>\$1,141,657,104</b>	<b>3.9%</b>	<b>\$1,107,007,845</b>	<b>3.7%</b>
Goldman Sachs	\$282,508,633	1.0%	\$274,081,551	0.9%
Hotchkis & Wiley	\$266,267,538	0.9%	\$260,975,024	0.9%
Martingale Asset Mgmt.	\$228,590,747	0.8%	\$218,423,911	0.7%
Peregrine Capital	\$364,290,185	1.2%	\$353,527,360	1.2%
<b>Semi-Passive Manager Aggregate</b>	<b>\$11,590,320,730</b>	<b>39.1%</b>	<b>\$11,371,158,446</b>	<b>38.5%</b>
BlackRock Institutional	\$2,548,181,271	8.6%	\$2,492,259,601	8.4%
INTECH	\$2,773,098,556	9.4%	\$2,718,869,730	9.2%
JP Morgan	\$3,291,043,568	11.1%	\$3,244,616,246	11.0%
Mellon Capital	\$2,977,997,335	10.1%	\$2,915,412,870	9.9%
<b>Passive Manager</b>	<b>\$10,042,233,399</b>	<b>33.9%</b>	<b>\$10,431,160,851</b>	<b>35.3%</b>
BlackRock Institutional	\$10,042,233,399	33.9%	\$10,431,160,851	35.3%
<b>Total Portfolio</b>	<b>\$29,617,028,499</b>	<b>100.0%</b>	<b>\$29,557,978,551</b>	<b>100.0%</b>

**COMBINED RETIREMENT FUNDS**  
**ACTIVE DOMESTIC EQUITY MANAGERS**  
**Calendar Year Returns**  
**Russell Style Manager Benchmarks**

	2014	2013	2012	2011	2010
<b>LARGE CAP</b>					
<b>Russell 1000 Growth Index</b>	<b>13.0</b>	<b>33.5</b>	<b>15.3</b>	<b>2.6</b>	<b>16.7</b>
INTECH	12.8	34.1	17.8	0.1	19.5
Jacobs Levy	12.9	37.0	13.0	6.6	19.5
Sands Capital	9.1	42.4	24.2	2.7	26.8
Winslow - Large Cap	11.0	37.4	13.7	0.1	16.8
Zevenbergen Capital	3.4	60.6	8.0	-9.8	22.9
<b>Aggregate</b>	<b>9.6</b>	<b>42.0</b>	<b>15.5</b>	<b>-0.4</b>	<b>19.3</b>
<b>Russell 1000 Value Index</b>	<b>13.5</b>	<b>32.5</b>	<b>17.5</b>	<b>0.4</b>	<b>15.5</b>
Barrow, Hanley	13.0	35.5	15.5	1.7	10.4
Earnest Partners	14.0	32.0	10.7	-4.7	18.5
LSV Asset Mgmt.	14.0	41.2	20.4	-0.8	14.0
Systematic Financial Mgmt.	11.6	35.0	18.2	-7.4	18.1
<b>Aggregate</b>	<b>13.1</b>	<b>36.5</b>	<b>16.9</b>	<b>-2.1</b>	<b>15.0</b>
<b>SMALL CAP</b>					
<b>Russell 2000 Growth Index</b>	<b>5.6</b>	<b>43.3</b>	<b>14.6</b>	<b>-2.9</b>	<b>29.1</b>
McKinley Capital	2.0	51.6	23.2	-7.9	28.5
Next Century Growth	-6.5	50.3	1.9	-4.5	29.6
<b>Aggregate</b>	<b>-3.4</b>	<b>47.2</b>	<b>12.0</b>	<b>-5.6</b>	<b>29.1</b>
<b>Russell 2000 Value Index</b>	<b>4.2</b>	<b>34.5</b>	<b>18.1</b>	<b>-5.5</b>	<b>24.5</b>
Goldman Sachs	7.4	39.3	16.6	1.3	27.0
Hotchkis & Wiley	13.0	46.0	24.1	-10.8	43.4
Martingale Asset Mgmt.	7.3	43.1	20.1	-5.2	27.4
Peregrine Capital	4.1	37.3	18.8	-4.1	27.3
<b>Aggregate</b>	<b>7.5</b>	<b>40.8</b>	<b>19.6</b>	<b>-4.5</b>	<b>30.5</b>
<b>Active Mgr. Aggregate</b>	<b>9.3</b>	<b>40.2</b>	<b>15.4</b>	<b>-2.7</b>	<b>19.7</b>
<i>Active Mgr. Aggregate Benchmark (1)</i>	<i>11.0</i>	<i>34.7</i>	<i>16.3</i>	<i>0.0</i>	<i>18.7</i>

(1) The Active Manager Aggregate Benchmark is the aggregate of the weighted average of the active manager benchmarks and is not the Russell 3000.

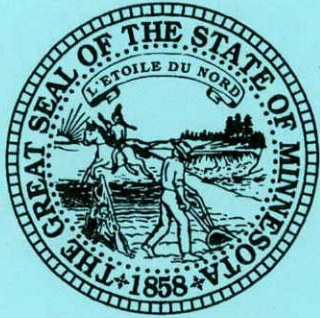
Note: All aggregates include the performance of terminated managers. Returns shown are full-year returns only. Performance of managers hired during a calendar year are reported beginning with the following calendar year.

**COMBINED RETIREMENT FUNDS**  
**DOMESTIC EQUITY MANAGERS**  
**Calendar Year Returns**  
**Versus Manager Benchmarks**

	2014	2013	2012	2011	2010
<b>Semi-Passive Managers</b>					
<b>Russell 1000 Index</b>	<b>13.2</b>	<b>33.1</b>	<b>16.4</b>	<b>1.5</b>	<b>16.1</b>
BlackRock Institutional	14.2	33.3	19.0	1.6	14.0
INTECH	11.6	33.0	16.6	2.9	--
JP Morgan	15.0	33.7	17.6	1.1	16.8
Mellon Capital	15.9	32.6	17.3	4.6	13.7
<b>Semi-Passive Aggregate (R1000)</b>	<b>14.2</b>	<b>33.2</b>	<b>17.7</b>	<b>2.2</b>	<b>15.2</b>
<b>Passive Managers</b>					
<b>Russell 3000 Index</b>	<b>12.6</b>	<b>33.6</b>	<b>16.4</b>	<b>1.0</b>	<b>16.9</b>
BlackRock Institutional	12.6	33.5	16.4	0.8	17.2
<b>Total Aggregate</b>	<b>12.3</b>	<b>35.1</b>	<b>16.6</b>	<b>0.4</b>	<b>17.1</b>
<i>Russell 3000 Index</i>	<i>12.6</i>	<i>33.6</i>	<i>16.4</i>	<i>1.0</i>	<i>16.9</i>
<i>Russell 1000 Index</i>	<i>13.2</i>	<i>33.1</i>	<i>16.4</i>	<i>1.5</i>	<i>16.1</i>
<i>Russell 2000 Index</i>	<i>4.9</i>	<i>38.8</i>	<i>16.3</i>	<i>-4.2</i>	<i>26.9</i>

Note: All aggregates include the performance of terminated managers. Returns shown are full year returns only. Performance of managers hired during a calendar year are reported beginning with the following calendar year.





# STATE BOARD OF INVESTMENT

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## International Manager Performance Summaries

First Quarter 2015





# MINNESOTA STATE BOARD OF INVESTMENT

## International Managers

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**COMBINED RETIREMENT FUNDS**  
**INTERNATIONAL MANAGERS**  
**Periods Ended March 2015**

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Since Inception (1)
<b>Active Developed Markets (2)</b>					
Acadian	3.2	-1.9	10.7	7.9	5.4
<i>Benchmark</i>	3.8	-1.4	8.2	5.7	5.3
Columbia	6.3	3.9	9.4	8.0	2.3
<i>Benchmark</i>	3.8	-1.4	8.2	5.7	3.2
J.P. Morgan	3.5	-0.8	7.7	6.0	5.3
<i>Benchmark</i>	3.8	-1.4	8.2	5.7	5.3
Marathon Asset Management	6.0	0.6	11.4	8.9	8.6
<i>Benchmark</i>	3.8	-1.4	8.2	5.7	5.2
McKinley	2.6	-1.1	10.4	6.9	4.9
<i>Benchmark</i>	3.8	-1.4	8.2	5.7	5.3
Pyramis (Fidelity)	4.8	0.2	10.4	7.9	7.0
<i>Benchmark</i>	3.8	-1.4	8.2	5.7	5.3
<b>Aggregate</b>	<b>4.7</b>	<b>0.3</b>	<b>10.1</b>	<b>7.5</b>	
<i>Benchmark</i>	3.8	-1.4	8.2	5.7	
<b>Active Emerging Markets (3)</b>					
Capital International	0.8	-2.9	-1.3	-0.8	9.6
<i>Benchmark</i>	2.2	0.4	0.3	1.7	10.4
Morgan Stanley	3.0	1.1	2.6	3.4	11.1
<i>Benchmark</i>	2.2	0.4	0.3	1.7	10.4
<b>Aggregate</b>	<b>2.0</b>	<b>-0.8</b>	<b>0.7</b>	<b>1.2</b>	
<i>Benchmark</i>	2.2	0.4	0.3	1.7	
<b>Semi-Passive Developed Markets (2)</b>					
AQR	4.2	-1.7	10.5	7.1	5.9
<i>Benchmark</i>	3.8	-1.4	8.2	5.7	5.3
Pyramis (Fidelity)	4.4	0.1	9.8	7.3	6.3
<i>Benchmark</i>	3.8	-1.4	8.2	5.7	5.3
State Street	4.7	-2.4	9.5	5.7	4.9
<i>Benchmark</i>	3.8	-1.4	8.2	5.7	5.3
<b>Aggregate</b>	<b>4.4</b>	<b>-1.1</b>	<b>9.9</b>	<b>6.8</b>	
<i>Benchmark</i>	3.8	-1.4	8.2	5.7	

(1) Since inception by the SBI. Time period varies for each manager.

(2) Since 6/1/08 the developed markets manager's benchmark 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 MSCI World ex USA (net). Prior to that date, it was MSCI EAFE Free (net). From 10/1/01 to 5/31/02 the benchmark was the Provisional MSCI EAFE Free (net).

(3) Since 6/1/08 the emerging markets manager's benchmark 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 MSCI Emerging Markets Free (net). Prior to that date, it was MSCI Emerging Markets Free (gross). From 10/1/01 to 5/31/02 the benchmark was the Provisional MSCI Emerging Markets Free (net).

**COMBINED RETIREMENT FUNDS  
INTERNATIONAL MANAGERS  
Periods Ended March 2015**

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Since Inception (1)
<b>Passive Developed Markets (2)</b>					
State Street	3.9	-1.0	8.6	6.2	6.5
Benchmark	3.8	-1.4	8.2	5.7	6.2
<b>Passive Emerging Markets (3)</b>					
State Street	2.1	0.7	0.6	--	4.5
Benchmark	2.2	0.4	0.3	--	4.4
Equity Only (4) (6)	3.8	-0.6	7.4	5.5	6.8
Benchmark	3.5	-1.0	6.4	4.8	6.3
<b>Total Program (5) (6)</b>	<b>3.8</b>	<b>-0.6</b>	<b>7.4</b>	<b>5.5</b>	<b>7.0</b>
Benchmark	3.5	-1.0	6.4	4.8	6.3
SBI Int'l Equity Target (6)	3.5	-1.0	6.4	4.8	6.3
MSCI ACWI Free ex USA (7)	3.5	-1.0	6.4	4.8	6.6
MSCI World ex USA (net)	3.8	-1.4	8.2	5.7	6.3
MSCI EAFE Free (net)	4.9	-0.9	9.0	6.2	6.2
MSCI Emerging Markets Free (8)	2.2	0.4	0.3	1.7	7.8

(1) Since retention by the SBI. Time period varies for each manager.

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

(3) Since 6/1/08 the emerging markets manager's benchmark 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 MSCI Emerging Markets Free (net). Prior to that date, it was MSCI Emerging Markets Free (gross). From 10/1/01 to 5/31/02 the benchmark was the Provisional MSCI Emerging Markets Free (net).

(4) Equity managers only. Includes impact of terminated managers.

(5) Includes impact of currency overlay on the passive EAFE portfolio from 12/1/95-10/31/00.

(6) 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. 100% EAFE Free (net) prior to 5/1/96.

(7) MSCI ACWI Free ex U.S. (gross) through 12/31/00. MSCI ACWI Free ex U.S. (net) thereafter.

(8) MSCI Emerging Markets Free (gross) through 12/31/00. MSCI Emerging Markets Free (net) thereafter.

**COMBINED RETIREMENT FUNDS**  
**INTERNATIONAL STOCK MANAGERS**  
**Periods Ended March 2015**

	<b>March 31, 2015</b>		<b>December 31, 2014</b>	
	<b>Market Value</b>	<b>Percent</b>	<b>Market Value</b>	<b>Percent</b>
<b>Active Developed Markets</b>	<b>\$2,464,566,267</b>	<b>27.3%</b>	<b>\$2,354,028,295</b>	<b>27.0%</b>
Acadian	\$373,770,189	4.1%	\$362,126,886	4.2%
Columbia	\$359,111,476	4.0%	\$337,832,839	3.9%
J.P. Morgan	\$300,732,818	3.3%	\$290,645,723	3.3%
Marathon	\$766,639,960	8.5%	\$723,097,215	8.3%
McKinley	\$304,996,757	3.4%	\$297,369,509	3.4%
Pyramis (Fidelity)	\$359,315,067	4.0%	\$342,956,124	3.9%
<b>Active Emerging Markets</b>	<b>\$1,512,584,171</b>	<b>16.7%</b>	<b>\$1,483,506,291</b>	<b>17.0%</b>
Capital International	\$709,042,540	7.8%	\$703,454,876	8.1%
Morgan Stanley	\$803,541,632	8.9%	\$780,051,415	9.0%
<b>Semi-Passive Developed Markets</b>	<b>\$1,187,620,262</b>	<b>13.1%</b>	<b>\$1,137,362,640</b>	<b>13.1%</b>
AQR	\$348,563,174	3.9%	\$334,360,307	3.8%
Pyramis (Fidelity)	\$523,088,657	5.8%	\$501,140,966	5.8%
State Street	\$315,968,431	3.5%	\$301,861,368	3.5%
<b>Passive Developed Markets</b>	<b>\$3,572,038,192</b>	<b>39.5%</b>	<b>\$3,437,102,775</b>	<b>39.5%</b>
State Street	\$3,572,038,192	39.5%	\$3,437,102,775	39.5%
<b>Passive Emerging Markets</b>	<b>\$299,583,312</b>	<b>3.3%</b>	<b>\$293,452,816</b>	<b>3.4%</b>
State Street	\$299,583,312	3.3%	\$293,452,816	3.4%
<b>Total Portfolio</b>	<b>\$9,036,392,203</b>	<b>100.0%</b>	<b>\$8,705,452,818</b>	<b>100.0%</b>

**COMBINED RETIREMENT FUNDS**  
**INTERNATIONAL STOCK MANAGERS**  
**Calendar Year Returns**

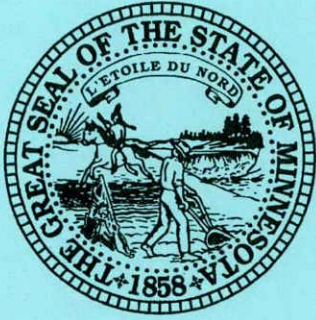
	2014	2013	2012	2011	2010
<b>Active Developed Markets (1)</b>					
Acadian	-1.7	26.1	17.6	-12.9	13.9
<i>Benchmark</i>	-4.3	21.0	16.4	-12.2	8.9
Columbia	-5.6	23.9	19.0	-12.1	15.2
<i>Benchmark</i>	-4.3	21.0	16.4	-12.2	8.9
J.P. Morgan	-5.1	19.5	18.4	-10.2	7.6
<i>Benchmark</i>	-4.3	21.0	16.4	-12.2	8.9
Marathon	-4.0	28.5	17.9	-9.2	14.4
<i>Benchmark</i>	-4.3	21.0	16.4	-12.2	8.9
McKinley	-2.7	28.0	16.9	-15.5	11.8
<i>Benchmark</i>	-4.3	21.0	16.4	-12.2	8.9
Pyramis (Fidelity)	-5.6	26.7	20.3	-11.9	11.7
<i>Benchmark</i>	-4.3	21.0	16.4	-12.2	8.9
<b>Aggregate</b>	<b>-4.1</b>	<b>25.4</b>	<b>17.9</b>	<b>-11.7</b>	<b>11.9</b>
<i>Benchmark</i>	-4.3	21.0	16.4	-12.2	8.9
<b>Active Emerging Markets (2)</b>					
Capital International	-5.9	0.7	13.8	-22.8	16.1
<i>Benchmark</i>	-2.2	-2.6	18.2	-18.4	18.9
Morgan Stanley	-2.4	0.5	21.1	-17.8	18.4
<i>Benchmark</i>	-2.2	-2.6	18.2	-18.4	18.9
<b>Aggregate</b>	<b>-4.1</b>	<b>0.6</b>	<b>17.5</b>	<b>-20.6</b>	<b>17.1</b>
<i>Benchmark</i>	-2.2	-2.6	18.2	-18.4	18.9
<b>Semi-Passive Developed Markets (1)</b>					
AQR	-4.4	24.1	20.8	-13.9	11.4
<i>Benchmark</i>	-4.3	21.0	16.4	-12.2	8.9
Pyramis (Fidelity)	-4.0	23.2	19.4	-12.6	11.5
<i>Benchmark</i>	-4.3	21.0	16.4	-12.2	8.9
State Street	-5.1	25.3	17.3	-15.6	8.7
<i>Benchmark</i>	-4.3	21.0	16.4	-12.2	8.9
<b>Aggregate</b>	<b>-4.4</b>	<b>24.0</b>	<b>19.2</b>	<b>-13.8</b>	<b>10.6</b>
<i>Benchmark</i>	-4.3	21.0	16.4	-12.2	8.9

- (1) Since 6/1/08 the developed markets manager's benchmark 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).
- (2) Since 6/1/08 the emerging markets manager's benchmark 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 MSCI Emerging Markets Free (net).
- (3) Equity managers only. Includes impact of terminated managers.
- (4) Since 6/1/08 the International Equity asset class target is the Standard (large + mid) MSCI ACWI ex USA (net). From 10/1/07 through 5/31/08 the benchmark was the Provisional Standard MSCI ACWI ex USA (net). From 10/1/03 to 9/30/07 the target was MSCI ACWI ex USA (net).

**COMBINED RETIREMENT FUNDS**  
**INTERNATIONAL STOCK MANAGERS**  
**Calendar Year Returns**

	2014	2013	2012	2011	2010
<b>Passive Developed Markets (1)</b>					
State Street	-3.9	21.4	16.7	-11.9	9.9
<i>Benchmark</i>	-4.3	21.0	16.4	-12.2	8.9
<b>Passive Emerging Markets (2)</b>					
State Street	-2.1	-2.5	18.5	--	--
<i>Benchmark</i>	-2.2	-2.6	18.2	--	--
Equity Only (3) (4)	-4.0	17.8	17.6	-14.2	12.3
<i>Benchmark</i>	-3.9	15.3	16.8	-13.7	11.2
<b>Total Program (4)</b>					
<i>Benchmark</i>	-4.0	17.8	17.6	-14.2	12.3
<i>SBI Int'l Equity Target (5)</i>	-3.9	15.3	16.8	-13.7	11.2
<i>MSCI ACWI Free ex USA (net)</i>	-3.9	15.3	16.8	-13.7	11.2
MSCI World ex USA (net)	-4.3	21.0	16.4	-12.2	8.9
MSCI EAFE Free (net)	-4.9	22.8	17.3	-12.1	7.7
<i>MSCI Emerging Markets Free (net)</i>	-2.2	-2.6	18.2	-18.4	18.9

- (1) Since 6/1/08 the developed markets manager's benchmark 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).
- (2) Since 6/1/08 the emerging markets manager's benchmark 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 MSCI Emerging Markets Free (net).
- (3) Equity managers only. Includes impact of terminated managers.
- (4) Since 6/1/08 the International Equity asset class target is the Standard (large + mid) MSCI ACWI ex USA (net). From 10/1/07 through 5/31/08 the benchmark was the Provisional Standard MSCI ACWI ex USA (net). From 10/1/03 to 9/30/07 the target was MSCI ACWI ex USA (net).



# STATE BOARD OF INVESTMENT

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## Bond Manager Performance Summaries

First Quarter 2015





# MINNESOTA STATE BOARD OF INVESTMENT

## Bond Managers

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**COMBINED RETIREMENT FUNDS  
BOND MANAGERS  
Periods Ended March 2015**

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Since Inception (1)
<b>Active Managers</b>					
<b>Barclays Aggregate Index</b>	<b>1.6</b>	<b>5.7</b>	<b>3.1</b>	<b>4.4</b>	
Aberdeen	1.9	6.5	4.3	5.9	5.9
<i>Benchmark</i>	<i>1.6</i>	<i>5.7</i>	<i>3.1</i>	<i>4.4</i>	<i>5.8</i>
Columbia (RiverSource)	1.7	5.6	3.9	5.4	5.8
<i>Benchmark</i>	<i>1.6</i>	<i>5.7</i>	<i>3.1</i>	<i>4.4</i>	<i>5.8</i>
Dodge & Cox	1.4	5.0	4.5	5.4	6.8
<i>Benchmark</i>	<i>1.6</i>	<i>5.7</i>	<i>3.1</i>	<i>4.4</i>	<i>5.8</i>
PIMCO	1.8	5.9	4.2	5.5	7.2
<i>Benchmark</i>	<i>1.6</i>	<i>5.7</i>	<i>3.1</i>	<i>4.4</i>	<i>5.3</i>
Western	2.0	6.5	4.5	6.0	9.0
<i>Benchmark</i>	<i>1.6</i>	<i>5.7</i>	<i>3.1</i>	<i>4.4</i>	<i>7.8</i>
<b>Active Mgr. Aggregate</b>	<b>1.8</b>	<b>5.9</b>	<b>4.3</b>	<b>5.6</b>	
<b>Semi-Passive Managers</b>					
BlackRock	1.7	5.9	3.4	4.7	5.8
<i>Benchmark</i>	<i>1.6</i>	<i>5.7</i>	<i>3.1</i>	<i>4.4</i>	<i>5.8</i>
Goldman	1.7	5.9	3.6	5.0	6.1
<i>Benchmark</i>	<i>1.6</i>	<i>5.7</i>	<i>3.1</i>	<i>4.4</i>	<i>5.8</i>
Neuberger	1.8	6.1	3.4	4.9	7.0
<i>Benchmark</i>	<i>1.6</i>	<i>5.7</i>	<i>3.1</i>	<i>4.4</i>	<i>6.8</i>
<b>Semi-Passive Mgr. Aggregate</b>	<b>1.7</b>	<b>5.9</b>	<b>3.5</b>	<b>4.9</b>	
<i>Benchmark</i>	<i>1.6</i>	<i>5.7</i>	<i>3.1</i>	<i>4.4</i>	
<b>Historical Aggregate (2)</b>	<b>1.7</b>	<b>5.9</b>	<b>3.9</b>	<b>5.3</b>	<b>8.0</b>
<i>Benchmark</i>	<i>1.6</i>	<i>5.7</i>	<i>3.1</i>	<i>4.4</i>	<i>7.9</i>
Barclays Aggregate Index (3)	1.6	5.7	3.1	4.4	7.9

(1) Since inception by the SBI. Time period varies for each manager.

(2) Includes performance of terminated managers.

(3) Prior to July 1994, this index reflects the Solomon BIG.

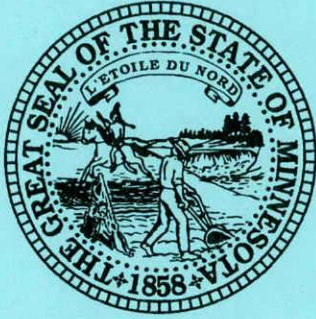
**COMBINED RETIREMENT FUNDS**  
**BOND MANAGERS**  
**Periods Ending March 2015**

	<b>March 31, 2015</b>		<b>December 31, 2014</b>	
	<b>Market Value</b>	<b>Percent</b>	<b>Market Value</b>	<b>Percent</b>
<b>Semi-Passive</b>	<b>\$7,369,598,888</b>	<b>50.3%</b>	<b>\$7,244,056,550</b>	<b>50.3%</b>
BlackRock	\$1,981,234,260	13.5%	\$1,947,308,427	13.5%
Goldman	\$2,764,439,384	18.9%	\$2,718,585,651	18.9%
Neuberger	\$2,623,925,245	17.9%	\$2,578,162,472	17.9%
<b>Active Managers</b>	<b>\$7,281,769,910</b>	<b>49.7%</b>	<b>\$7,154,968,713</b>	<b>49.7%</b>
Aberdeen	\$1,135,120,809	7.7%	\$1,113,715,771	7.7%
Columbia (RiverSource)	\$1,233,576,958	8.4%	\$1,212,656,160	8.4%
Dodge & Cox	\$1,549,603,158	10.6%	\$1,527,752,600	10.6%
PIMCO	\$1,647,750,431	11.2%	\$1,618,556,451	11.2%
Western	\$1,715,718,554	11.7%	\$1,682,287,731	11.7%
<b>Total Portfolio</b>	<b>\$14,651,368,799</b>	<b>100.0%</b>	<b>\$14,399,025,263</b>	<b>100.0%</b>

**COMBINED RETIREMENT FUNDS**  
**BOND MANAGERS**  
**Calendar Year Returns**

	2014	2013	2012	2011	2010
<b>Active Managers</b>					
Aberdeen	6.7	-1.5	7.7	8.0	10.7
<i>Benchmark</i>	6.0	-2.0	4.2	7.8	6.5
Columbia (RiverSource)	5.8	-1.0	6.9	8.1	8.1
<i>Benchmark</i>	6.0	-2.0	4.2	7.8	6.5
Dodge & Cox	6.0	0.9	8.5	5.0	7.8
<i>Benchmark</i>	6.0	-2.0	4.2	7.8	6.5
PIMCO	5.5	-1.3	9.3	4.5	12.1
<i>Benchmark</i>	6.0	-2.0	4.2	7.8	6.5
Western	7.0	-1.4	7.8	7.1	10.9
<i>Benchmark</i>	6.0	-2.0	4.2	7.8	6.5
<b>Active Mgr. Aggregate</b>	<b>6.2</b>	<b>-0.8</b>	<b>8.1</b>	<b>6.4</b>	<b>10.0</b>
<i>Benchmark</i>	6.0	-2.0	4.2	7.8	6.5
<b>Semi-Passive Managers</b>					
BlackRock	6.0	-1.8	5.0	8.0	6.5
<i>Benchmark</i>	6.0	-2.0	4.2	7.8	6.5
Goldman	6.1	-1.7	5.4	8.3	8.0
<i>Benchmark</i>	6.0	-2.0	4.2	7.8	6.5
Neuberger	6.1	-2.0	5.4	7.6	9.1
<i>Benchmark</i>	6.0	-2.0	4.2	7.8	6.5
<b>Semi-Passive Mgr. Aggregate</b>	<b>6.1</b>	<b>-1.8</b>	<b>5.3</b>	<b>8.0</b>	<b>7.9</b>
<i>Benchmark</i>	6.0	-2.0	4.2	7.8	6.5
<b>Historical Aggregate</b>	<b>6.1</b>	<b>-1.3</b>	<b>6.7</b>	<b>7.2</b>	<b>9.0</b>
<i>Benchmark</i>	6.0	-2.0	4.2	7.8	6.5
Barclays Aggregate Index	6.0	-2.0	4.2	7.8	6.5

The benchmark for the Fixed Income Asset Class is the Barclays Capital U.S. Aggregate Bond Index.



# STATE BOARD OF INVESTMENT

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## Non-Retirement Manager Performance Summaries

First Quarter 2015



# MINNESOTA STATE BOARD OF INVESTMENT

## Non-Retirement Managers

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**NON-RETIREMENT MANAGERS**  
**Periods Ended March 2015**

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Since Inception (1)
GE Asset Management	0.6	11.5	16.1	13.0	10.2
<i>S&amp;P 500 Index</i>	<i>1.0</i>	<i>12.7</i>	<i>16.1</i>	<i>14.5</i>	<i>9.8</i>
RBC Global Asset Management (2)	1.2	3.0	1.5	3.3	5.4
<i>Barclays Intermediate Government</i>	<i>1.3</i>	<i>3.2</i>	<i>1.5</i>	<i>2.8</i>	<i>5.6</i>
Internal Stock Pool	1.0	12.8	16.1	14.5	9.5
<i>S&amp;P 500 Index</i>	<i>1.0</i>	<i>12.7</i>	<i>16.1</i>	<i>14.5</i>	<i>9.4</i>
Internal Bond Pool - Trust	1.7	5.8	4.0	4.7	6.6
<i>Barclays Aggregate</i>	<i>1.6</i>	<i>5.7</i>	<i>3.1</i>	<i>4.4</i>	<i>6.1</i>

(1) Since retention by the SBI. Time period varies for each manager.

(2) Prior to July 2011, a blended benchmark consisting of 25% Merrill Lynch (ML) Mortgage Master, 25% ML 1-3 Yr Gov't, 25% ML 5-10 Year Treasury/Ag, 15% ML 3-5 Year Treasury/Ag, and 10% ML 91-day T-Bill was utilized.

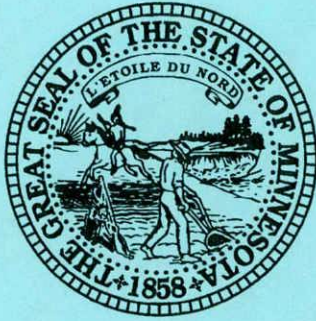
**NON-RETIREMENT MANAGERS**  
**Periods Ended March 2015**

	<b>March 31, 2015</b>		<b>December 31, 2014</b>	
	<b>Market Value</b>	<b>Percent</b>	<b>Market Value</b>	<b>Percent</b>
GE Asset Management	\$62,882,075	2.1%	\$62,501,700	2.1%
RBC Global Asset Management	\$239,904,006	8.0%	\$233,126,786	7.9%
Internal Stock Pool	\$1,751,018,858	58.2%	\$1,735,303,024	58.5%
Internal Bond Pool - Trust	\$954,266,690	31.7%	\$933,621,102	31.5%
<b>Total Portfolio</b>	<b>\$3,008,071,630</b>	<b>100.0%</b>	<b>\$2,964,552,613</b>	<b>100.0%</b>

**NON-RETIREMENT MANAGERS**  
**Calendar Year Returns**

	2014	2013	2012	2011	2010
GE Asset Management	13.2	34.5	16.8	-2.2	10.7
<i>S&amp;P 500 Index</i>	13.7	32.4	16.0	2.1	15.1
RBC Global Asset Management (1)	2.5	-1.3	1.8	7.1	8.4
<i>Barclays Intermediate Gov</i>	2.5	-1.2	1.7	6.2	5.0
Internal Stock Pool	13.7	32.2	16.0	2.2	15.1
<i>S&amp;P 500 Index</i>	13.7	32.4	16.0	2.1	15.1
Internal Bond Pool - Trust	6.0	0.0	5.8	5.6	6.3
<i>Barclays Aggregate</i>	6.0	-2.0	4.2	7.8	6.5

(1) Prior to July 2011, a blended benchmark consisting of 25% Merrill Lynch (ML) Mortgage Master, 25% ML 1-3 Year Gov't, 25% ML 5-10 Year Treasury/Ag, 15% ML 3-5 Year Treasury/Ag, and 10% ML 91-day T-Bill was utilized.



**STATE BOARD  
OF INVESTMENT**

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**Deferred Compensation Plan  
Minnesota College Savings Plan  
Performance Summaries**

**First Quarter 2015**



# MINNESOTA STATE BOARD OF INVESTMENT

## Deferred Compensation Plan and Minnesota College Savings Plan

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**MN STATE 457 DEFERRED COMPENSATION PLAN**

**FUND OPTIONS**

**Periods Ended March 2015**

	<b>Last Quarter</b>	<b>Last Year</b>	<b>Last 3 Years</b>	<b>Last 5 Years</b>	<b>Since Inception(2)</b>
<b>Large Cap Equity</b>					
Janus Twenty	0.3	10.9	14.0	11.0	4.2
<i>S&amp;P 500</i>	<i>1.0</i>	<i>12.7</i>	<i>16.1</i>	<i>14.5</i>	<i>4.6</i>
Vanguard Institutional Index Plus	1.0	12.7	16.1	14.5	4.6
<i>S&amp;P 500</i>	<i>1.0</i>	<i>12.7</i>	<i>16.1</i>	<i>14.5</i>	<i>4.6</i>
<b>Mid Cap Equity</b>					
Vanguard Mid-Cap Index	4.3	14.9	17.9	16.1	10.6
<i>CRSP US Mid Cap (3)</i>	<i>4.3</i>	<i>15.0</i>	<i>18.1</i>	<i>16.2</i>	<i>10.6</i>
<b>Small Cap Equity</b>					
T. Rowe Price Small-Cap Stock	3.9	8.8	16.7	16.9	10.6
<i>Russell 2000</i>	<i>4.3</i>	<i>8.2</i>	<i>16.3</i>	<i>14.6</i>	<i>8.0</i>
<b>Balanced</b>					
Vanguard Balanced Index Inst. Fund	1.8	9.8	11.0	10.8	7.5
<i>60% CRSP US Tot Mkt, 40% Barclays Agg (4)</i>	<i>1.8</i>	<i>9.8</i>	<i>11.1</i>	<i>10.8</i>	<i>7.5</i>
<b>Fixed Income</b>					
Dodge & Cox Income Fund	1.3	4.4	4.1	5.0	6.1
<i>Barclays Aggregate</i>	<i>1.6</i>	<i>5.7</i>	<i>3.1</i>	<i>4.4</i>	<i>5.6</i>
Vanguard Total Bond Market Index Inst.	1.6	5.6	3.1	4.4	4.8
<i>Barclays Aggregate</i>	<i>1.6</i>	<i>5.7</i>	<i>3.1</i>	<i>4.4</i>	<i>4.8</i>
SIF Money Market (1)	0.0	0.1	0.2	0.2	4.0
3 Month T-Bills	0.0	0.0	0.1	0.1	3.6
<b>SIF Fixed Interest (1)</b>					
Galliard Capital Management	0.5	1.8	2.2	2.8	4.8
<i>3-Year Constant Maturity Treasury +45bp</i>	<i>0.3</i>	<i>1.4</i>	<i>1.1</i>	<i>1.1</i>	<i>3.7</i>
<b>International</b>					
Fidelity Diversified International	6.4	3.8	11.0	7.7	7.1
<i>MSCI EAFE Free</i>	<i>4.9</i>	<i>-0.9</i>	<i>9.0</i>	<i>6.2</i>	<i>4.1</i>
Vanguard Total International Stock Index	4.1	-1.0	6.7	--	3.1
<i>FTSE Global All Cap ex US (5)</i>	<i>3.7</i>	<i>-0.5</i>	<i>6.9</i>	<i>--</i>	<i>3.3</i>

Benchmarks for the Funds are noted in italics below the Fund names.

- (1) SIF Money Market Account and SIF Fixed Interest Accounts are Supplemental Investment Fund options (SIF), which are also offered under the Deferred Compensation Plan.
- (2) Since retention by the SBI. Time periods varies for each manager.
- (3) Benchmark is the CRSP US Mid-Cap Index beginning February 2013. Prior to that date it was the MSCI US Mid-Cap 450 Index.
- (4) Benchmark is 60% CRSP US Total Market Index and 40% Barclays Aggregate Bond Index beginning January 2013. Prior to that date it was 60% MSCI US Broad Market Index and 40% Barclays Aggregate Bond Index.
- (5) Benchmark is the FTSE Global All Cap ex US Index beginning June 2013; MSCI ACWI ex USA IMI beginning December 2010; MSCI EAFE and Emerging Markets Index beginning August 2006. Prior to that date it was the total International Composite Index, which is the MSCI EAFE Index and the Select Emerging Markets Free Index.

**MN STATE 457 DEFERRED COMPENSATION PLAN**  
**FUND OPTIONS**  
**Periods Ended March 2015**

<b>MN Target Retirement Funds</b>	<b>Last Quarter</b>	<b>Last Year</b>	<b>Last 3 Years</b>	<b>Last 5 Years</b>	<b>Since Inception (1)</b>
<b>SSgA</b>					
Income Fund	1.5	3.4	4.9	--	5.4
Income Fund Benchmark	1.5	3.5	5.1	--	5.5
2015 Fund	1.5	3.5	5.5	--	6.5
2015 Fund Benchmark	1.5	3.6	5.7	--	6.6
2020 Fund	1.8	4.5	7.4	--	8.2
2020 Fund Benchmark	1.8	4.6	7.5	--	8.3
2025 Fund	2.1	5.6	9.1	--	9.5
2025 Fund Benchmark	2.0	5.7	9.2	--	9.6
2030 Fund	2.4	6.4	10.1	--	10.2
2030 Fund Benchmark	2.2	6.5	10.2	--	10.3
2035 Fund	2.5	6.6	10.8	--	10.6
2035 Fund Benchmark	2.3	6.7	10.8	--	10.7
2040 Fund	2.6	6.7	11.2	--	10.5
2040 Fund Benchmark	2.4	6.8	11.2	--	10.6
2045 Fund	2.7	6.7	11.6	--	10.6
2045 Fund Benchmark	2.6	6.8	11.6	--	10.6
2050 Fund	2.8	6.7	11.6	--	10.6
2050 Fund Benchmark	2.6	6.8	11.7	--	10.7
2055 Fund	2.8	6.7	11.6	--	10.6
2055 Fund Benchmark	2.6	6.8	11.7	--	10.7
2060 Fund	2.8	6.7	11.6	--	10.6
2060 Fund Benchmark	2.6	6.8	11.7	--	10.7

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.  
The underlying index funds are listed below.

(1) Since retention by the SBI. Time period varies for each manager.



**MN STATE 457 DEFERRED COMPENSATION PLAN**  
**FUND OPTIONS**  
**Periods Ended March 2015**

<b>SSgA Index Funds</b>	<b>Last Quarter</b>	<b>Last Year</b>	<b>Last 3 Years</b>	<b>Last 5 Years</b>	<b>Since Inception (1)</b>
S&P 500 Index Fund	0.9	12.7	16.1	--	15.2
<i>S&amp;P 500</i>	<i>1.0</i>	<i>12.7</i>	<i>16.1</i>	<i>--</i>	<i>15.2</i>
DJ-UBS Roll Select Commodity Index Fund	-5.4	-24.6	--	--	-9.7
<i>DJ-UBS Roll Select Commodity Index</i>	<i>-5.4</i>	<i>-24.6</i>	<i>--</i>	<i>--</i>	<i>-9.5</i>
Russell Small/Mid Cap Index Fund	5.2	10.4	--	--	21.3
<i>Russell Small Cap Completeness Index</i>	<i>5.2</i>	<i>10.3</i>	<i>--</i>	<i>--</i>	<i>21.3</i>
Global All-Cap Equity ex-US Index Fund	4.2	-1.1	6.8	--	3.3
<i>MSCI ACWI ex USA IMI</i>	<i>3.5</i>	<i>-1.3</i>	<i>6.5</i>	<i>--</i>	<i>3.0</i>
Global Real Estate Securities Index Fund	4.4	16.1	12.3	--	9.9
<i>FTSE EPRA/NAREIT Dev Liquid</i>	<i>4.0</i>	<i>15.3</i>	<i>11.6</i>	<i>--</i>	<i>9.2</i>
Long Government Bond Index Fund	3.9	21.0	7.6	--	11.1
<i>Barclays Long Government</i>	<i>3.9</i>	<i>21.0</i>	<i>7.6</i>	<i>--</i>	<i>11.1</i>
Bond Index Fund	1.6	5.8	3.1	--	3.9
<i>Barclays Aggregate</i>	<i>1.6</i>	<i>5.7</i>	<i>3.1</i>	<i>--</i>	<i>3.9</i>
Inflation Protected Bond Index Fund	1.4	3.1	0.6	--	2.6
<i>Barclays U.S. TIPS</i>	<i>1.4</i>	<i>3.1</i>	<i>0.6</i>	<i>--</i>	<i>2.6</i>
High Yield Bond Index Fund	2.6	1.6	6.8	--	7.1
<i>Barclays U.S. High Yield Very Liquid</i>	<i>2.6</i>	<i>1.6</i>	<i>7.0</i>	<i>--</i>	<i>7.3</i>
U.S. Short-Term Gov/Credit Index Fund	0.6	1.0	0.9	--	1.6
<i>Barclays 1-3 Yr Govt/Credit</i>	<i>0.6</i>	<i>1.1</i>	<i>1.0</i>	<i>--</i>	<i>1.0</i>

Benchmarks for the SSgA Funds are noted in italics below the Fund names.

(1) Minnesota Target Retirement Funds inception date is July 2011.

**MN STATE 457 DEFERRED COMPENSATION PLAN**  
**FUND OPTIONS**  
**Calendar Year Returns**

	2014	2013	2012	2011	2010
<b>Large Cap Equity</b>					
Janus Twenty	8.9	33.1	22.3	-8.2	7.0
<i>S&amp;P 500</i>	<i>13.7</i>	<i>32.4</i>	<i>16.0</i>	<i>2.1</i>	<i>15.1</i>
Vanguard Institutional Index Plus	13.7	32.4	16.0	2.1	15.1
<i>S&amp;P 500</i>	<i>13.7</i>	<i>32.4</i>	<i>16.0</i>	<i>2.1</i>	<i>15.1</i>
<b>Mid Cap Equity</b>					
Vanguard Mid-Cap Index	13.8	35.2	16.0	-2.0	25.7
<i>CRSP US Mid Cap (2)</i>	<i>13.8</i>	<i>35.4</i>	<i>16.0</i>	<i>-1.9</i>	<i>25.7</i>
<b>Small Cap Equity</b>					
T. Rowe Price Small-Cap Stock	6.9	37.6	18.0	-0.1	32.5
<i>Russell 2000</i>	<i>4.9</i>	<i>38.8</i>	<i>16.3</i>	<i>-4.2</i>	<i>26.9</i>
<b>Balanced</b>					
Vanguard Balanced Index Inst. Fund	10.0	18.1	11.5	4.3	13.3
<i>60% CRSP US Tot Mkt, 40% Barclays Agg (3)</i>	<i>10.0</i>	<i>18.2</i>	<i>11.6</i>	<i>4.1</i>	<i>13.5</i>
<b>Fixed Income</b>					
Dodge & Cox Income Fund	5.5	0.6	7.9	4.8	7.2
<i>Barclays Aggregate</i>	<i>6.0</i>	<i>-2.0</i>	<i>4.2</i>	<i>7.8</i>	<i>6.5</i>
Vanguard Total Bond Market Index Inst.	5.9	-2.1	4.2	7.7	6.6
<i>Barclays Aggregate</i>	<i>6.0</i>	<i>-2.0</i>	<i>4.2</i>	<i>7.8</i>	<i>6.5</i>
SIF Money Market (1)	0.1	0.2	0.3	0.2	0.2
3 Month T-Bills	0.0	0.1	0.1	0.1	0.1
<b>SIF Fixed Interest (1)</b>					
Galliard Capital Management	1.8	2.2	2.8	3.4	4.1
<i>3-Year Constant Maturity Treasury +45bp</i>	<i>1.3</i>	<i>1.0</i>	<i>0.8</i>	<i>1.2</i>	<i>1.5</i>
<b>International</b>					
Fidelity Diversified International	-3.2	25.2	19.4	-13.8	9.7
<i>MSCI EAFE Free</i>	<i>-4.9</i>	<i>22.8</i>	<i>17.3</i>	<i>-12.1</i>	<i>7.7</i>
Vanguard Total International Stock Index	-4.1	15.2	18.3	-14.6	11.1
<i>FTSE Global All Cap ex US (4)</i>	<i>-3.1</i>	<i>15.9</i>	<i>17.0</i>	<i>-14.3</i>	<i>10.7</i>

Numbers in blue include returns prior to retention by SBI.

Benchmarks for the Funds are noted in italics below the Fund names.

- (1) SIF Money Market Account and SIF Fixed Interest Accounts are Supplemental Investment Fund options (SIF), which are also offered under the Deferred Compensation Plan accounts.
- (2) Benchmark is the CRSP US Mid-Cap Index beginning February 2013. Prior to that date it was the MSCI US Mid-Cap 450 Index.
- (3) Benchmark is 60% CRSP US Total Market Index and 40% Barclays Aggregate Bond Index beginning January 2013. Prior to that date it was 60% MSCI US Broad Market Index and 40% Barclays Aggregate Bond Index.
- (4) Benchmark is the FTSE Global All Cap ex US Index beginning June 2013; MSCI ACWI ex USA IMI beginning December 2010; MSCI EAFE and Emerging Markets Index beginning August 2006. Prior to that date it was the total International Composite Index, which is the MSCI EAFE Index and the Select Emerging Markets Free Index.

**MN STATE 457 DEFERRED COMPENSATION PLAN**  
**FUND OPTIONS**  
**Calendar Year Returns**

<b>MN Target Retirement Funds</b>	<b>2014</b>	<b>2013</b>	<b>2012</b>	<b>2011</b>	<b>2010</b>
<b>SSgA</b>					
Income Fund	3.6	5.1	9.7	4.6	9.6
Income Fund Benchmark	3.8	5.3	9.8	4.8	10.1
2015 Fund	4.0	5.6	11.0	6.9	12.1
2015 Fund Benchmark	4.2	5.8	11.0	7.1	12.5
2020 Fund	5.3	8.8	12.5	7.3	13.6
2020 Fund Benchmark	5.5	9.1	12.5	7.4	13.9
2025 Fund	5.9	13.2	13.7	5.9	14.6
2025 Fund Benchmark	6.2	13.5	13.7	6.0	14.7
2030 Fund	6.3	16.0	14.3	4.9	15.1
2030 Fund Benchmark	6.6	16.3	14.1	5.0	15.3
2035 Fund	6.4	18.1	14.9	3.5	15.7
2035 Fund Benchmark	6.7	18.5	14.7	3.6	15.8
2040 Fund	6.4	19.7	15.5	1.5	15.9
2040 Fund Benchmark	6.6	20.0	15.3	1.6	16.1
2045 Fund	6.2	21.3	16.0	0.0	16.2
2045 Fund Benchmark	6.5	21.6	15.8	0.1	16.2
2050 Fund	6.2	21.4	15.9	0.1	16.1
2050 Fund Benchmark	6.5	21.7	15.8	0.1	16.2
2055 Fund	6.2	21.4	15.9	0.1	16.1
2055 Fund Benchmark	6.5	21.7	15.8	0.1	16.2
2060 Fund	6.2	21.4	16.0	--	--
2060 Fund Benchmark	6.5	21.7	15.8	--	--

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.

Numbers in blue include returns prior to retentional by SBI.

**MN STATE 457 DEFERRED COMPENSATION PLAN**  
**FUND OPTIONS**  
**Calendar Year Returns**

<b>SSgA Index Funds</b>	<b>2014</b>	<b>2013</b>	<b>2012</b>	<b>2011</b>	<b>2010</b>
S&P 500 Index Fund	13.7	32.4	16.0	2.1	15.1
<i>S&amp;P 500</i>	<i>13.7</i>	<i>32.4</i>	<i>16.0</i>	<i>2.1</i>	<i>15.1</i>
DJ-UBS Roll Select Commodity Index Fund	-15.3	-9.3	--	--	--
DJ-UBS Roll Select Commodity Index	-15.2	-9.1	--	--	--
Russell Small/Mid Cap Index Fund	7.5	38.4	--	--	--
<i>Russell Small Cap Completeness Index</i>	<i>7.4</i>	<i>38.5</i>	<i>--</i>	<i>--</i>	<i>--</i>
Global All-Cap Equity ex-US Index Fund	-4.2	15.4	18.2	--	--
<i>MSCI ACWI ex USA IMI</i>	<i>-3.9</i>	<i>15.8</i>	<i>17.0</i>	<i>--</i>	<i>--</i>
Global Real Estate Securities Index Fund	15.5	2.7	28.9	-5.4	19.1
<i>FTSE EPRA/NAREIT Dev Liquid</i>	<i>15.0</i>	<i>2.5</i>	<i>27.5</i>	<i>-5.8</i>	<i>18.4</i>
Long Government Bond Index Fund	24.6	-12.5	3.8	29.2	9.5
<i>Barclays Long Government</i>	<i>24.7</i>	<i>-12.5</i>	<i>3.8</i>	<i>29.1</i>	<i>9.4</i>
Bond Index Fund	6.0	-2.1	4.2	7.8	6.6
<i>Barclays Aggregate</i>	<i>6.0</i>	<i>-2.0</i>	<i>4.2</i>	<i>7.8</i>	<i>6.5</i>
Inflation Protected Bond Index Fund	3.6	-8.6	6.9	13.5	6.2
<i>Barclays U.S. TIPS</i>	<i>3.6</i>	<i>-8.6</i>	<i>7.0</i>	<i>13.6</i>	<i>6.3</i>
High Yield Bond Index Fund	2.1	6.6	14.8	5.7	12.5
<i>Barclays U.S. High Yield Very Liquid</i>	<i>2.1</i>	<i>6.6</i>	<i>15.4</i>	<i>6.1</i>	<i>15.1</i>
U.S. Short-Term Gov/Credit Index Fund	0.7	0.6	3.9	1.5	2.4
<i>Barclays 1-3 Yr Govt/Credit</i>	<i>0.8</i>	<i>0.6</i>	<i>1.3</i>	<i>1.6</i>	<i>2.8</i>

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.

Benchmarks for the Funds are noted in italics below the Fund names.

Numbers in blue include returns prior to retention by SBI.

**MN STATE 457 DEFERRED COMPENSATION PLAN  
FUND OPTIONS**

	<b>March 31, 2015</b>		<b>December 31, 2014</b>	
	<b>Market Value</b>	<b>Percent</b>	<b>Market Value</b>	<b>Percent</b>
<b>Large Cap Equity</b>	<b>\$1,528,503,642</b>	<b>26.5%</b>	<b>\$1,524,049,341</b>	<b>26.8%</b>
Janus Twenty	\$535,876,974	9.3%	\$540,394,987	9.5%
Vanguard Institutional Index Plus	\$992,626,668	17.2%	\$983,654,354	17.3%
<b>Mid Cap Equity</b>	<b>\$441,260,377</b>	<b>7.6%</b>	<b>\$416,082,332</b>	<b>7.3%</b>
Vanguard Mid-Cap Index	\$441,260,377	7.6%	\$416,082,332	7.3%
<b>Small Cap Equity</b>	<b>\$614,281,356</b>	<b>10.6%</b>	<b>\$598,147,784</b>	<b>10.5%</b>
T. Rowe Price Small-Cap Stock	\$614,281,356	10.6%	\$598,147,784	10.5%
<b>Balanced</b>	<b>\$690,936,059</b>	<b>12.0%</b>	<b>\$675,243,700</b>	<b>11.9%</b>
Vanguard Balanced Index Inst. Fund	\$690,936,059	12.0%	\$675,243,700	11.9%
<b>Fixed Income</b>	<b>\$457,025,343</b>	<b>7.9%</b>	<b>\$450,557,752</b>	<b>7.9%</b>
Dodge & Cox Income Fund	\$209,588,575	3.6%	\$206,412,954	3.6%
Vanguard Total Bond Market Index Inst.	\$191,335,955	3.3%	\$183,654,799	3.2%
Money Market	\$56,100,813	1.0%	\$60,489,998	1.1%
<b>Stable Value</b>	<b>\$1,306,026,420</b>	<b>22.6%</b>	<b>\$1,324,889,661</b>	<b>23.3%</b>
Galliard Stable Value Composite	\$1,306,026,420	22.6%	\$1,324,889,661	23.3%
<b>International</b>	<b>\$443,159,705</b>	<b>7.7%</b>	<b>\$419,226,751</b>	<b>7.4%</b>
Fidelity Diversified International	\$284,063,983	4.9%	\$269,050,778	4.7%
Vanguard Total International Stock Index	\$159,095,722	2.8%	\$150,175,973	2.6%
<b>Target Retirement Funds</b>	<b>\$290,116,977</b>	<b>5.0%</b>	<b>\$268,405,190</b>	<b>4.7%</b>
Income Fund	\$69,144,923	1.2%	\$35,278,724	0.6%
2015 Fund	--	0.0%	\$33,995,510	0.6%
2020 Fund	\$69,484,910	1.2%	\$61,837,438	1.1%
2025 Fund	\$51,740,192	0.9%	\$48,514,935	0.9%
2030 Fund	\$33,654,589	0.6%	\$29,852,538	0.5%
2035 Fund	\$25,511,669	0.4%	\$22,987,776	0.4%
2040 Fund	\$15,334,358	0.3%	\$13,284,576	0.2%
2045 Fund	\$10,246,534	0.2%	\$9,156,925	0.2%
2050 Fund	\$7,342,078	0.1%	\$6,782,522	0.1%
2055 Fund	\$3,317,374	0.1%	\$2,993,718	0.1%
2060 Fund	\$4,340,348	0.1%	\$3,720,526	0.1%

**MINNESOTA COLLEGE SAVINGS PLAN**  
**STATIC OPTIONS (1)**  
**Periods Ended March 2015**

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Since Inception(1)
<b>Equity</b>					
MNCSP US Intl Equity Allocation	3.0	9.2	13.3	12.1	6.7
MNCSP US Intl Equity Allocation Benchmark	2.9	9.3	13.6	12.4	7.8
MNCSP Equity Interest Allocation	1.1	--	--	--	3.6
MNCSP Equity Interest Benchmark	1.0	--	--	--	3.4
MNCSP Intl Eq Index Allocation	4.8	-1.0	--	--	5.6
MNCSP Intl Eq Index Allocation Benchmark	4.4	-0.5	--	--	6.2
MNCSP US LC Equity Allocation	0.9	--	--	--	8.2
MNCSP US LC Equity Allocation Benchmark	1.0	--	--	--	8.4
<b>Fixed Income</b>					
MNCSP Fixed Income Allocation	1.7	4.8	1.9	3.8	4.3
MNCSP Fixed Income Allocation Benchmark	1.7	5.1	2.5	4.4	5.1
MNCSP Principal Interest Allocation	0.3	1.2	1.3	1.8	2.8
MNCSP Principal Interest Allocation Benchmark	0.0	0.0	0.1	0.1	1.4
MNCSP Money Market Allocation	0.0	0.0	0.0	-0.1	0.3
MNCSP Money Market Allocation Benchmark	0.0	0.0	0.0	0.0	0.4

(1) Since retention by the SBI. Time periods varies for each option

**MINNESOTA COLLEGE SAVINGS PLAN**  
**ALLOCATION OPTIONS**  
**Periods Ended March 2015**

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Since Inception <sup>(1)</sup>
<b>Allocation Options</b>					
MNCSP Aggressive Allocation	2.8	--	--	--	5.4
MNCSP Aggressive Allocation Benchmark	2.6	--	--	--	5.4
MNCSP Moderate Allocation	2.5	7.4	8.8	8.8	5.1
MNCSP Moderate Allocation Benchmark	2.4	7.7	9.2	9.4	5.9
MNCSP Conservative Allocation	1.7	--	--	--	2.2
MNCSP Conservative Allocation Benchmark	1.6	--	--	--	2.2
<b>Managed Allocation Options</b>					
MNCSP Managed 0-4 Yrs	2.7	--	--	--	5.4
*MNCSP Managed 0-4 Yrs - Bench	2.6	--	--	--	5.4
MNCSP Managed 5-8 Yrs	2.5	--	--	--	5.0
*MNCSP Managed 5-8 Yrs - Bench	2.5	--	--	--	5.0
MNCSP Managed 9-10 Yrs	2.4	--	--	--	4.6
*MNCSP Managed 9-10 Yrs - Bench	2.4	--	--	--	4.6
MNCSP Managed 11-12 Yrs	2.3	--	--	--	4.1
*MNCSP Managed 11-12 Yrs - Bench	2.2	--	--	--	4.1
MNCSP Managed 13-14 Yrs	2.0	--	--	--	3.6
*MNCSP Managed 13-14 Yrs - Bench	2.0	--	--	--	3.6
MNCSP Managed 15 Yrs	1.7	--	--	--	3.0
*MNCSP Managed 15 Yrs - Bench	1.6	--	--	--	2.9
MNCSP Managed 16 Yrs	1.6	--	--	--	2.7
*MNCSP Managed 16 Yrs - Bench	1.4	--	--	--	2.5
MNCSP Managed 17 Yrs	1.3	--	--	--	2.3
*MNCSP Managed 17 Yrs - Bench	1.2	--	--	--	2.1
MNCSP Managed 18+ Yrs	1.2	--	--	--	2.0
*MNCSP Managed 18+ Yrs - Bench	1.0	--	--	--	1.6

(1) Since retention by the SBI. Time period varies for each option.

**MINNESOTA COLLEGE SAVINGS PLAN**  
**ALLOCATION OPTIONS UNDERLYING FUNDS**  
**Periods Ended March 2015**

	<b>Last Quarter</b>	<b>Last Year</b>	<b>Last 3 Years</b>	<b>Last 5 Years</b>	<b>Last 10 Years</b>
TIAA-CREF:Bond Idx;Inst	1.6	5.7	2.9	4.3	--
Barclays Aggregate Index	1.6	5.7	3.1	4.4	4.9
TIAA-CREF:EM Eq Idx;Inst	2.5	0.1	-0.1	--	--
MSCI:Emer Markets	2.3	0.8	0.7	2.1	8.8
TIAA-CREF:Eq Idx;Inst	1.8	12.3	16.4	14.7	8.3
Russell 3000 Index	1.8	12.4	16.4	14.7	8.4
TIAA-CREF:Hi-Yld;Inst	2.9	2.3	7.0	8.4	--
ML:1-3 BB US HY CP	1.5	2.4	5.9	6.3	7.0
TIAA-CREF:Infl Bond;Inst	1.4	2.9	0.4	4.1	4.3
Barclays:US TIPS Index	1.4	3.1	0.6	4.3	4.6
TIAA-CREF:Intl Eq Ix;Inst	5.4	-1.0	9.1	6.3	5.0
MSCI:EAFE US\$	4.9	-0.9	9.0	6.2	4.9
TIAA-CREF:Money Mkt;Inst	0.0	0.0	0.0	0.0	1.6
MFR Avg All-Taxble	0.0	0.0	0.0	0.1	1.4
TIAA-CREF:Real Est;Inst	5.2	24.8	13.6	15.6	8.4
NAREIT All Equity Index	4.0	22.7	14.0	15.6	9.5
TIAA-CREF:S&P500 Idx;Ins	0.9	12.6	16.0	14.4	7.9
S&P 500 Index	1.0	12.7	16.1	14.5	8.0



**TAB**

**F**

DATE: May 12, 2015

TO: Members, Investment Advisory Council

FROM: SBI Staff

**SUBJECT: Presentation and Discussion – Liquid Real Assets**

Staff will give a presentation regarding liquid real assets, with particular focus on Master Limited Partnerships (MLPs) and public Real Estate Investment Trusts (REITs). These investment opportunities have gained notable acceptance among institutional investors. The purpose of the presentation will be to provide a brief overview of the roles that liquid real assets can serve in an investment portfolio. We will focus on the potential advantages of MLPs and REITs. We hope the presentation will prompt a discussion of the relative merits of the asset class and the potential inclusion of these investment types in the SBI investment program.