



RVK

# North Dakota Board of University and School Lands

## Investment Performance Analysis

Period Ended: September 30, 2015



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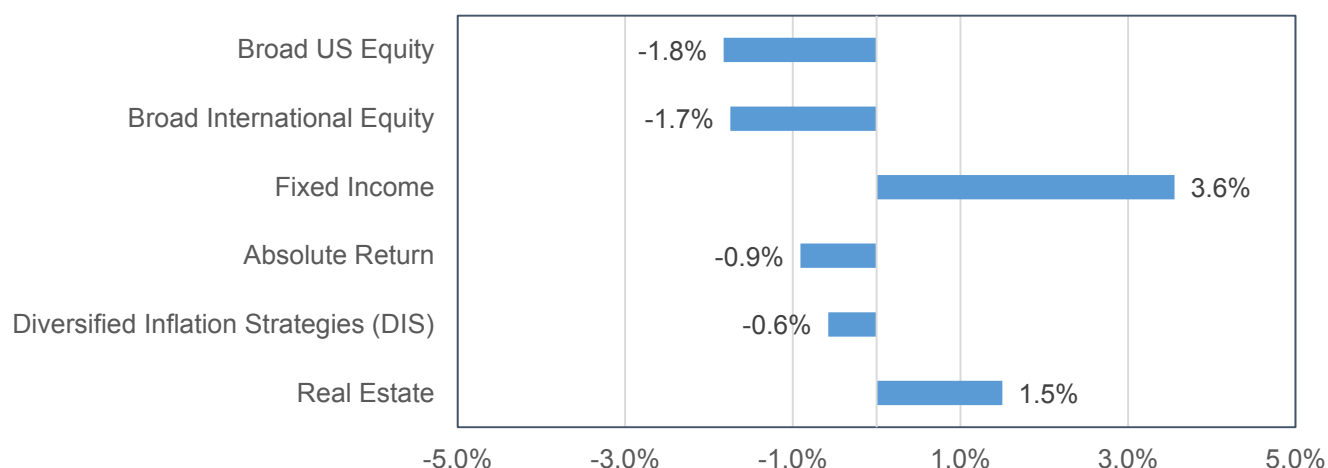
# Board Executive Summary



# Board Executive Summary

Asset Allocation vs. Target Allocation				
	Market Value (\$) as of 9/30/15	Allocation (%)	Long-Term Asset Allocation	Interim Target Allocation <sup>1</sup>
Broad US Equity	601,139,749	17.7%	17.0%	19.5%
Broad International Equity	532,415,534	15.7%	15.0%	17.4%
Fixed Income	1,012,005,605	29.8%	23.0%	26.2%
Absolute Return	717,263,112	21.1%	20.0%	22.0%
Diversified Inflation Strategies (DIS)	347,656,284	10.2%	10.0%	10.8%
Real Estate	190,452,540	5.6%	15.0%	4.1%
Total Fund	3,400,932,824	100.0%	100.0%	100.0%

Asset Allocation vs. Interim Target Allocation Differences



- The Land Board's assets totaled \$3.4 billion as of September 30, 2015. The Fund remained in line with interim target allocations, which reflect the gradual allocation to real estate as real estate commitments continue to be called. The interim target allocations will progress towards the long-term target as real estate mandates become fully funded.
- The Fund increased its real estate allocation during the quarter to 4.1%, as Morgan Stanley called \$37.5 million at the end of the second quarter. Additionally Jamestown Premier Property Fund called \$23.4 million at the end of the third quarter; this allocation was funded from cash (fixed income overweight) and is reflected in the Fund's October 1, 2015 market values.
- The DIS composite was restructured during the second quarter to add the three approved managers/sub strategies and fully exited from REITS utilizing State Street for transition management.
- No additional significant changes were made to the Fund during the third quarter.

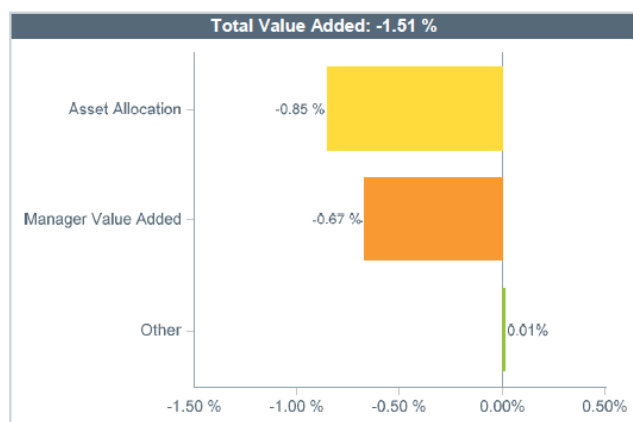
<sup>1</sup> The Interim Target Allocation targets reflect real estate mandates not being fully funded. These targets will change on a quarterly basis to account for real estate commitments called.

## Total Fund Performance

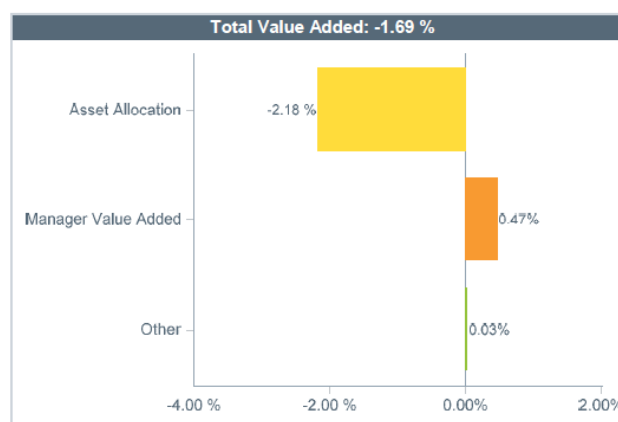
	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	2014	2013	2012	Since Incep.	Inception Date
<b>Total Fund (Net)</b>	<b>-6.6</b>	<b>-5.9</b>	<b>-4.5</b>	<b>4.4</b>	<b>5.9</b>	<b>6.1</b>	<b>4.8</b>	<b>13.2</b>	<b>11.3</b>	<b>6.5</b>	<b>08/01/1995</b>
Long-Term Target Allocation Index	-5.0	-3.5	-2.5	5.4	6.7	N/A	5.5	13.1	11.9	N/A	
Interim Target Allocation Index	-6.1	-5.5	-4.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
<b>Total Fund (Gross)</b>	<b>-6.5</b>	<b>-5.7</b>	<b>-4.1</b>	<b>4.7</b>	<b>6.2</b>	<b>N/A</b>	<b>5.1</b>	<b>13.4</b>	<b>11.6</b>	<b>8.4</b>	<b>07/01/2009</b>
Long-Term Target Allocation Index	-5.0	-3.5	-2.5	5.4	6.7	N/A	5.5	13.1	11.9	9.3	
All Public Plans > \$1B-Total Fund Median	-4.9	-2.3	-0.8	6.7	7.6	7.2	6.6	15.8	13.4	9.8	
Rank	93	99	98	97	99	N/A	88	72	89	93	

- The Fund returned -6.6% (net of fees) during the quarter, underperforming its long-term target allocation index by 160 basis points. This is largely a result of the Fund's underweight to real estate, the top-performing asset class of the quarter. Underperformance from some active managers during the difficult quarter also detracted from relative performance.
- The Fund underperformed its interim allocation index during the quarter, but to a lesser extent (underperformed by 57 basis points). Underperformance was mostly a result of below-benchmark performance by active managers within the fixed income, absolute return, and DIS composites. RVK believes managers should be evaluated over a full market cycle.
- Active managers within the broad U.S. equity, broad international equity, and real estate composites outperformed their respective benchmarks for the quarter.
- The Fund's longer-term relative performance remains favorable, as the Fund outperformed the interim allocation index during the trailing one-year period by 34 basis points on a net of fees basis.
- Compared to a peer universe of public plans<sup>2</sup> with over \$1 billion in total assets, the Fund underperformed median results and ranked in the bottom decile over both recent and longer-term trailing periods. It is important to note that peers have meaningfully different long-term objectives than the Land Board and are therefore positioned differently than. Additionally, the Fund's long-term performance does not reflect its current long-term asset allocation which was approved in 2014 and is still being implemented.

### Total Fund QTD Attribution



### Total Fund Trailing 1-Year Attribution



<sup>2</sup> Additional details on the peer group utilized can be found in the glossary of the performance report.

## Broad US Equity<sup>3</sup>

	QTD	CYTD	1 Year	3 Years	5 Years	2014	2013	2012	Since Incep.	Inception Date
<b>Broad US Equity</b>	<b>-7.4</b>	<b>-5.9</b>	<b>-0.5</b>	<b>11.3</b>	<b>11.5</b>	<b>12.4</b>	<b>28.3</b>	<b>14.7</b>	<b>14.4</b>	<b>07/01/2009</b>
Russell 3000 Index	-7.2	-5.4	-0.5	12.5	13.3	12.6	33.6	16.4	15.1	
Difference	-0.1	-0.4	-0.0	-1.3	-1.8	-0.1	-5.3	-1.8	-0.7	
IM U.S. Equity (SA+CF) Median	-8.1	-5.2	0.5	13.0	13.3	9.9	35.8	16.0	15.5	
Rank	40	61	60	74	80	33	91	65	73	

- U.S. equity markets ended the quarter in negative territory in response to the global sell-off in August and September. The Russell 3000 Index returned -7.2%; small and microcap indices suffered the largest losses finishing the quarter at -11.9% and -13.8%, respectively.
- The Fund's U.S. equity composite returned -7.4% during the quarter, marginally trailing the Russell 3000 Index and performing in the 40<sup>th</sup> percentile relative to broad U.S. equity peers. Underperformance was a result of the Fund's above-benchmark allocation to small cap equity through its investments in SSgA Small Cap Completion Index Fund and NT Small Cap Core Fund.
- Although small and mid-cap exposure detracted from relative total composite performance, NT Small Cap Core Fund, the active mandate, outperformed its benchmark by 71 basis points. The Fund, which invests in four small cap managers, benefited from aggregate below-benchmark exposure to bio technology stocks. Prior to the quarter, the NT Small Cap Core Fund was hurt by minimal exposure to this sector as some of the underlying managers did not view this sector as sustaining its value.
- Since the U.S. equity composite was restructured in 2014, it has closely tracked the performance of its benchmark as expected, given its high allocation to passive strategies.

## Broad International Equity

	QTD	CYTD	1 Year	3 Years	5 Years	2014	2013	2012	Since Incep.	Inception Date
<b>Broad International Equity</b>	<b>-11.5</b>	<b>-8.0</b>	<b>-11.5</b>	<b>6.2</b>	<b>3.4</b>	<b>-4.9</b>	<b>26.5</b>	<b>17.7</b>	<b>6.2</b>	<b>07/01/2009</b>
MSCI ACW Ex US Index (Net)	-12.2	-8.6	-12.2	2.3	1.8	-3.9	15.3	16.8	5.6	
Difference	0.7	0.6	0.7	3.9	1.6	-1.1	11.2	0.9	0.6	
IM International Large Cap Equity (SA+CF) Median	-10.0	-4.2	-6.9	6.3	5.0	-3.7	22.6	19.1	8.2	
Rank	74	87	88	51	79	64	23	64	89	

- Similar to U.S. equity markets, international equity markets struggled during the quarter, but suffered greater losses due to the reduction of earnings growth expectations amid declining global demand, and continued concerns over the sustainability of Europe's growth. Equity markets in emerging market and commodity-sensitive countries were further hurt as a result of weakening economic indicators in China and a subsequent devaluation of the Yuan.
- The Fund's international equity composite returned -11.5% during the quarter, outperforming relative to the benchmark's -12.2% return. Both of the composite's active mandates, Harding Loevner Emerging Market and DFA Emerging Market Core Equity, added value during the quarter.
- During the quarter, Harding Loevner returned -15.2%, outperforming the MSCI Emerging Market Index's return of -17.9%. The fund benefited from favorable stock selection in the financials, health care, and energy sectors. Further adding to relative performance was Harding Loevner's

<sup>3</sup> The Fund's composite asset class performance shown is gross of fees.

overweight allocation to health care, the best performing sector of the index (-9.4%), and an underweight allocation to energy (-25.0%), the worst performing sector.

- DFA returned -16.5% for the quarter, outperforming the MSCI Emerging Market Index by 141 basis points. Similar to Harding Loevner, DFA benefited from an above-benchmark allocation to the healthcare sector and an underweight allocation to the energy sector.
- The international equity composite portfolio added value relative to the MSCI All Country World ex-U.S. Index over longer-term periods, as both DFA and Harding Loevner have outperformed their benchmark since being added to the Land Board portfolio in July 2014.

## Fixed Income

	QTD	CYTD	1 Year	3 Years	5 Years	2014	2013	2012	Since Incep.	Inception Date
<b>Fixed Income</b>	<b>0.1</b>	<b>0.3</b>	<b>1.5</b>	<b>2.0</b>	<b>3.9</b>	<b>5.0</b>	<b>-0.4</b>	<b>7.4</b>	<b>5.4</b>	<b>07/01/2009</b>
Barclays Gbl Agg Bond Index	0.9	-2.3	-3.3	-1.6	0.8	0.6	-2.6	4.3	2.6	
Difference	-0.8	2.6	4.8	3.6	3.1	4.4	2.2	3.0	2.8	
IM Global Fixed Income (SA+CF) Median	-1.3	-2.0	-2.8	1.4	3.0	2.5	-0.1	9.0	4.9	
Rank	30	22	18	43	37	28	54	60	45	

- During the third quarter, fixed income markets provided a modest buffer for investors, as a flight to quality resulted in lower interest rates in developed markets. While global government bonds performed in line with U.S. Treasuries, local currency emerging market bonds experienced losses which were amplified by the strengthening U.S. Dollar and economic weakness in emerging markets.
- The Fund's fixed income composite returned 0.1% during the quarter, underperforming the Barclays Global Aggregate Bond Index by 78 basis points. Despite relative underperformance, the composite ranked in the 30<sup>th</sup> percentile relative to peers for the quarter and significantly outperformed the benchmark across all longer-term trailing time periods.
- The composite experienced mixed results from its active managers during the quarter. Brandywine Global Opportunity Fixed Income was the largest detractor of performance. Lazard High Yield also produced weak results, but was able to add value relative to its benchmark. Other active mandates did not deviate significantly from their respective benchmarks.
- Brandywine returned -4.2% during the quarter, trailing its benchmark by approximately 590 basis points. Underperformance was due to Brandywine's significant allocation to emerging market debt, one of the worst performing sectors over recent time periods. Brandywine's below-benchmark exposure to developed non-U.S. bonds and U.S. Treasuries also hurt performance as these sectors produced positive returns during the quarter. While Brandywine struggled during recent periods, their longer-term performance remains favorable.
- Lazard High Yield returned -3.1% during the quarter, outperforming its benchmark by 122 basis points as the manager tends to be positioned conservatively relative to its benchmark and tends to outperform in down markets. High yield bonds had a difficult quarter due to weak performance of the energy sector, as energy prices retreated back near recent lows.

## Absolute Return

	QTD	CYTD	1 Year	Since Incep.	Inception Date
<b>Absolute Return</b>	<b>-7.0</b>	<b>-6.7</b>	<b>-7.5</b>	<b>-7.6</b>	<b>07/01/2014</b>
Absolute Return Custom Index	-5.3	-3.5	-2.5	-3.3	
Difference	-1.7	-3.2	-5.1	-4.3	
Consumer Price Index + 5%	0.9	5.1	5.0	4.9	
Difference	-8.0	-11.8	-12.5	-12.4	

- The Land Board's absolute return composite declined 7.0% during the quarter, compared to its custom index return of -5.3%. Each of the composite's three underlying global tactical asset allocation (GTAA) funds underperformed their respective long-term benchmarks.
- GMO underperformed its benchmark during the quarter largely as a result of its allocation to emerging markets (16.2%), the worst performing asset class of the quarter. GMO continues to view emerging markets as having the most-favorable valuations among equity asset classes.
- Over the last year, PIMCO All Asset All Authority had challenging performance as a result of their exposure to emerging market equity, emerging market debt, and commodities. PIMCO increased its allocations to these sectors believing the sectors represent some of the most attractive valuations and potential long-term return opportunities; however that positioning has been severely challenged in the near term. Short exposure to U.S. equities further detracted from performance.
- Westwood's recent weak performance can be attributed to its exposure to MLPs, as energy and energy-related securities have struggled due to the significant decline in crude oil prices. Further, the overweight to equities and underweight to REITs relative to its custom benchmark detracted for the quarter.
- It is important to note that the GTAA funds have only been in the Fund for a short time period. GTAA managers are expected to outperform their respective benchmarks during a full market cycle. Periods of underperformance are expected to occur.

## Diversified Inflation Strategies (DIS)

	QTD	CYTD	1 Year	Since Incep.	Inception Date
<b>Diversified Inflation Strategies (DIS)</b>	<b>-16.9</b>	<b>-19.4</b>	<b>-12.1</b>	<b>-6.5</b>	<b>04/01/2014</b>
DIS Custom Index	-15.2	-16.2	-12.9	-7.3	
Difference	-1.8	-3.2	0.8	0.8	

- Diversified inflation strategies had a difficult quarter, as inflation-sensitive assets performed poorly due to continued reduction of inflation expectations. Key drivers of reduced expectations included emerging market currency devaluations (considered disinflationary for U.S. investors), decreased growth expectations of major Southeast Asian economies, and oversupplied commodity markets.
- During the second quarter of 2015, the Land Board restructured its DIS portfolio to add Gresham Commodities, Harvest MLP, and Van Eck Natural Resource Equities to its existing NT Common TIPS mandate. The Land Board also liquidated its existing REITs mandate.
- The restructured DIS portfolio returned -16.9% during its first full quarter and trailed its custom index by approximately 180 basis points. Both Gresham and Van Eck underperformed their respective benchmarks, while Harvest MLP outperformed its benchmark.
- The Land Board's investment with Gresham returned -14.7% during the quarter. The Gresham mandate was designed to provide broad commodity exposure while strategically excluding





allocations to natural gas and crude oil given the Land Board's indirect exposure to oil and natural gas through oil revenues. The strategy was hurt by underweight allocations to gold, silver, and sugar, which were the better performing commodities, while exposure to lead, palladium, and cocoa benefited relative performance.

- Van Eck returned -27.0% during the third quarter, compared to a -22.5% from the S&P Global Natural Resource Select Index. Underperformance was attributed to the Van Eck's weak stock selection in the energy and materials sectors.
- While MLPs continue to experience challenging results due to the decline in crude oil prices, Harvest MLP outperformed its benchmark, returning -22.8% during the quarter, compared to the S&P MLP Index return of -24.2%.
- Historical performance includes the Land Board's prior allocation to Delaware REITS, which has since been liquidated.

## Real Estate

	QTD	Since Incep.	Inception Date
<b>Real Estate</b>	<b>3.8</b>	<b>3.8</b>	<b>07/01/2015</b>
NCREIF ODCE Index (Gross) (AWA)	3.7	3.7	
Difference	0.1	0.1	

- Private real estate in the U.S. was impacted less by market turmoil, as evidenced by the 3.7% quarterly return in the NCREIF-ODCE Index, the benchmark for U.S. core real estate. The Index recorded its 22<sup>nd</sup> consecutive positive quarterly return as demand for real estate in the domestic market remained strong with vacancy declines and rent growth occurring across major property types.
- The Land Board committed approximately \$562.5 million to private real estate, representing 15% of the Fund's assets. Real estate allocations will be split among two core real estate managers (\$300 million) and three non-core real estate managers (\$262.5 million).
- The Land Board's real estate composite returned 3.7% for the quarter, approximating the return of the NCREIF-ODCE Index. Three of the five real estate mandates have been funded to-date, with initial capital commitments called at the end of the second quarter.
- Morgan Stanley Prime Property Fund (core) returned 3.9% during the third quarter outperforming the NCREIF-ODCE Index by 23 basis points.
- USB Trumbull Property Fund (core) gained 3.4% during the quarter, marginally underperforming the Index.
- Jamestown Premier Property Fund (non-core) returned 2.9% for the quarter, underperforming its benchmark by 76 basis points.
- As of September 30, 2015, the Land Board's real estate assets approximated \$190 million. The remainder of committed capital is expected to be called throughout 2016.

Real Estate Manager	Real Estate Mandate	Capital Committed	Approximate Capital Called (as of 9/30)
Morgan Stanley Prime Property	Core	\$150 M	\$150 M
UBS Trumbull Property	Core	\$150 M	\$25 M
Jamestown Premier Property	Core-plus	\$75 M	\$35 M
Prologis U.S. Targeted Logistics	Core-plus	\$75 M	--
JP Morgan Income and Growth	Core-plus	\$75 M	--

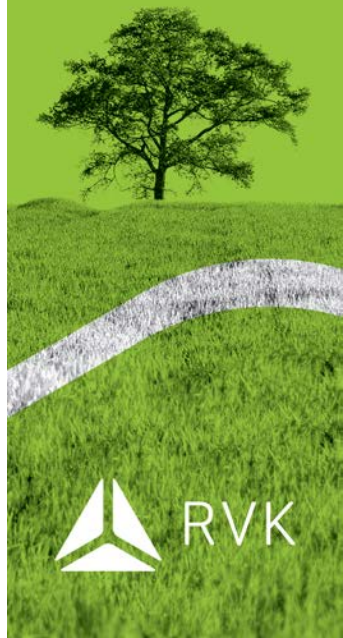


Asset Allocation							
Asset Class	Market Value	Within LT Target Range?		Current (%)	LT Targets		
		Yes	No		Min.	Target	Max.
Broad US Equity	\$ 601,139,749	✓		17.68%	12%	17%	22%
Broad International Equity	\$ 532,415,534	✓		15.65%	10%	15%	20%
Fixed Income	\$ 1,012,005,605		✓	29.76%	18%	23%	28%
Absolute Return	\$ 717,263,112	✓		21.09%	15%	20%	25%
Diversified Inflation Strategies (DIS)	\$ 347,656,284	✓		10.22%	5%	10%	15%
Real Estate	\$ 190,452,540		✓	5.60%	10%	15%	20%
Total Fund	\$ 3,400,932,823			100%			

Monitoring Guideline (Over a Full Market Cycle of 5 Years)			Explanation
<b>Total Fund (Gross)</b>			
	Yes	No	
Total Fund returns exceed the Target Allocation Index over a 5-year period.		✓	The Total Fund Composite returned 6.15% vs. 6.69% for the index.
Rank above the All Public Plans > \$1B-Total Fund Median.		✓	The Total Fund Composite has a ranking of 99 (gross of fees). Fund is still migrating towards its long-term asset allocation and historical comparisons are highly differentiated.
<b>Broad US Equity Composite</b>			
	Yes	No	
The composite returns exceed the Russell 3000 Index over a 5 year period.		✓	The composite returned 11.34% vs. 13.28% for the index. Includes managers which are no longer in the portfolio.
Rank above the IM U.S. Equity Median.		✓	The composite has a ranking of 80 (gross of fees). Includes managers which are no longer in the portfolio.
<b>SSgA S&amp;P 500 Index</b>			
	Yes	No	
The fund returns are in line with the S&P 500 Index (Cap Wtd) over a 5 year period.	✓		The fund returned 13.31% vs. 13.34% for the index.
Rank above the IM U.S. Large Cap Equity Median.		✓	The fund has a ranking of 54 (gross of fees).
<b>SSgA Sm Cap Compl Index</b>			
	Yes	No	
The fund returns are in line with the Russell Sm Cap Compl Index over a 5 year period.	✓		The fund returned 12.99% vs. 12.75% for the index.
Rank above the IM US SMID Cap Equity Median.	✓		The fund has a ranking of 50 (gross of fees).
<b>NT Small Cap Core</b>			
	Yes	No	
The fund returns exceed the Russell 2000 Custom Index over a 5 year period.		✓	The fund returned 10.31% vs. 12.52% for the index. Mandate was altered June 2014 to a more concentrated small cap strategy; continue to monitor.
Rank above the IM US Small Cap Core Equity Median.		✓	The fund has a ranking of 90 (gross of fees). Mandate was altered June 2014 to a more concentrated small cap strategy; continue to monitor.
<b>Broad International Equity Composite</b>			
	Yes	No	
The composite returns exceed the MSCI ACW Ex US Index (Net) over a 5 year period.	✓		The composite returned 2.90% vs. 1.82% for the index. Includes managers which are no longer in the portfolio. Current managers added July 2014.
Rank above the IM International Large Cap Equity Median.		✓	The composite has a ranking of 79 (gross of fees). Includes managers which are no longer in the portfolio. Current managers added July 2014.
<b>SSgA World Ex US Index</b>			
	Yes	No	
The fund returns are in line with the MSCI World Ex US Index (Net) over a 5 year period.			5 year data is unavailable.
Rank above the IM International Large Cap Equity Median.			5 year data is unavailable.
<b>DFA Emg Mkts Core Eq;I</b>			
	Yes	No	
The fund returns exceed the MSCI Emg Mkts Index (Net) over a 5 year period.			5 year data is unavailable.
Rank above the IM Emerging Markets Equity Median.			5 year data is unavailable.
<b>Harding Loevner: IEM;II</b>			
	Yes	No	
The fund returns exceed the MSCI Emg Mkts Index (Net) over a 5 year period.			5 year data is unavailable.
Rank above the IM Emerging Markets Equity Median.			5 year data is unavailable.
<b>Fixed Income Composite</b>			
	Yes	No	
The composite returns exceed the Barclays Gbl Agg Bond Index over a 5 year period.	✓		The composite returned 3.62% vs. 0.81% for the index.
Rank above the IM Global Fixed Income Median.	✓		The composite has a ranking of 37 (gross of fees).
<b>Payden &amp; Rygel Long Term</b>			
	Yes	No	
The fund returns exceed the Barclays US Agg Bond Index over a 5 year period.	✓		The fund returned 3.78% vs. 3.10% for the index.
Rank above the IM U.S. Broad Market Core Fixed Income Median.	✓		The fund has a ranking of 27 (gross of fees).
<b>JP Morgan FI Intermediate Bond</b>			
	Yes	No	
The fund returns exceed the Barclays US Gov't/Credit: Int Trm Bond Index over a 5 year period.			5 year data is unavailable.
Rank above the IM U.S. Intermediate Duration Fixed Income Median.			5 year data is unavailable.
<b>FIA International Fixed Income</b>			
	Yes	No	
The fund returns exceed the Barclays Gbl Agg Ex USD Index (Hedged) over a 5 year period.	✓		The fund returned 4.19% vs. 3.80% for the index.
Rank above the IM International Fixed Income Median.	✓		The fund has a ranking of 28 (gross of fees).
<b>Brandywine Gbl Opp FI</b>			
	Yes	No	
The fund returns exceed the Citi Wrld Gov't Bond Index over a 5 year period.			5 year data is unavailable.
Rank above the IM Global Fixed Income Median.			5 year data is unavailable.

	Yes	No	
<b>Lazard High Yield</b>			
The fund returns exceed the BofA ML US Hi Yld BB-B Rated Index over a 5 year period.		✓	The fund returned 5.68% vs. 6.01% for the index.
Rank above the IM U.S. High Yield Bonds Median.		✓	The fund has a ranking of 66 (gross of fees). Manager has lower risk than peers. Over 10-years, in 27th percentile for Sharpe Ratio (risk adjusted returns).
<b>Payden:Low Dur;Inv</b>			
The fund returns exceed the Barclays US Trsy: 1-3 Yr Index over a 5 year period.	✓		The fund returned 2.31% vs. 0.76% for the index.
Rank above the IM U.S. Short Duration Fixed Income Median.	✓		The fund has a ranking of 5 (gross of fees).
<b>Payden &amp; Rygel Cash</b>			
The fund returns exceed the BofA ML 3 Mo US T-Bill Index over a 5 year period.		✓	The fund returned -0.01% vs. 0.08% for the index.
<b>Absolute Return Composite</b>			
The composite returns exceed the Absolute Return Custom Index over a 5 year period.			5 year data is unavailable.
<b>Westwood Income Opportunity</b>			
The fund returns exceed the Westwood Custom Index over a 5 year period.			5 year data is unavailable.
<b>GMO:Bchmk-Fr All;IV</b>			
The fund returns exceed the 60% MSCI ACW Index (Net)/40% B Gbl Agg Bond Index over a 5 year period.			5 year data is unavailable.
<b>PIMCO:All Ast Ath;Inst</b>			
The fund returns exceed the All Asset Custom Index over a 5 year period.			5 year data is unavailable.
<b>Diversified Inflation Strategies (DIS) Composite</b>			
The composite returns exceed the DIS Custom Index over a 5 year period.			5 year data is unavailable.
<b>NT Common TIPS Index</b>			
The fund returns are in line with the Barclays US Trsy: US TIPS Index over a 5 year period.	✓		The fund returned 2.53% vs. 2.55% for the index.
Rank above the IM U.S. TIPS Median.	✓		The fund has a ranking of 41 (gross of fees).
<b>Gresham Commodities</b>			
The fund returns exceed the Bbrg Cmdty Ex-Energy Index (TR) over a 5 year period.			5 year data is unavailable.
<b>Harvest MLP</b>			
The fund returns exceed the S&P MLP Index Index over a 5 year period.			5 year data is unavailable.
<b>Van Eck NR Equities</b>			
The fund returns exceed the S&P Gbl Natural Res Index (TR) Index over a 5 year period.			5 year data is unavailable.
<b>Real Estate Composite</b>			
The composite returns exceed the NCREIF ODCE Index (Net) over a 5 year period.			5 year data is unavailable.
<b>Morgan Stanley Prime Property Fund</b>			
The fund returns exceed the NCREIF ODCE Index (Net) over a 5 year period.			5 year data is unavailable.
<b>UBS Trumbull Property Fund</b>			
The fund returns exceed the NCREIF ODCE Index (Net) over a 5 year period.			5 year data is unavailable.
<b>Jamestown Premier Property Fund</b>			
The fund returns exceed the NCREIF ODCE Index (Net) over a 5 year period.			5 year data is unavailable.

# Capital Markets Review

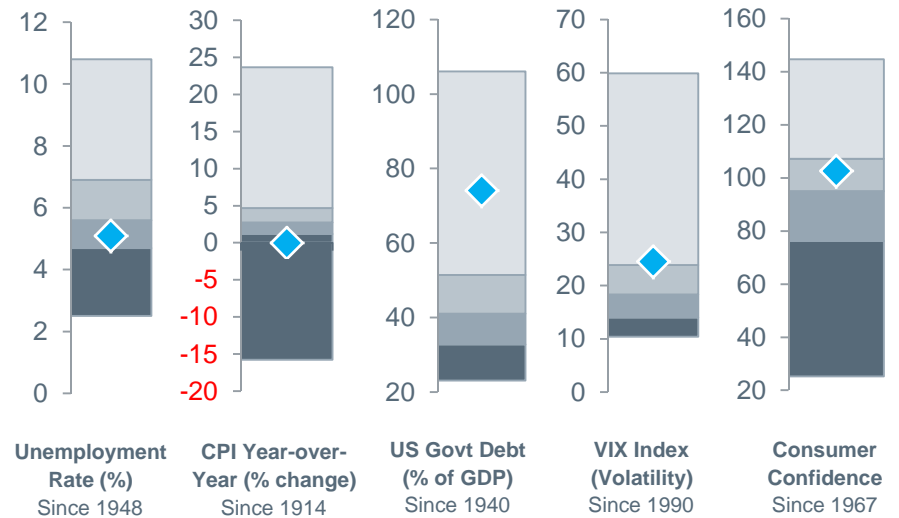


Third Quarter Economic Environment

Key Economic Indicators

US Dollar strength and weaker than anticipated global demand contributed to broad declines for most risk assets in Q3. Equity markets in emerging market and commodity-sensitive countries suffered the greatest losses, largely in response to weakening economic indicators in China and a subsequent devaluation of the Yuan. Fixed income markets provided a modest buffer for investors, as a flight to quality resulted in lower interest rates in developed markets. Perhaps the most significant event of the quarter was the unexpected decision by the People's Bank of China to devalue the Yuan against the US Dollar, which acted as a catalyst for a significant recalibration of global growth expectations. The VIX rose to an intra-day high above 40, representing its highest level since the Global Financial Crisis. US second quarter GDP growth was revised up to a healthy 3.9% annualized rate, but more recent economic data suggested weakening growth and inflation. At the much anticipated September meeting, the Fed cited moderating inflation and downside risks to global growth as reasons to leave interest rates constant.

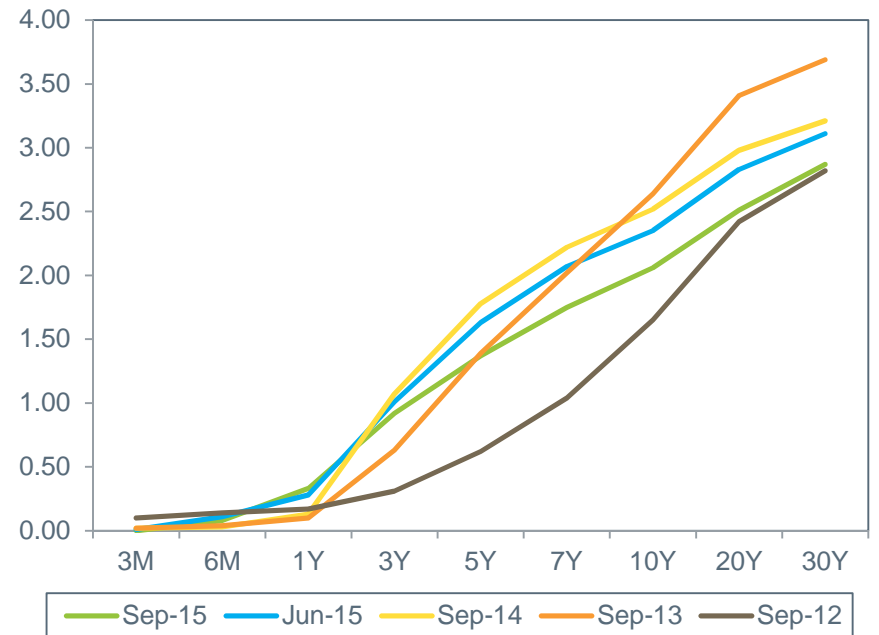
Key Economic Indicators



Economic Indicators

	Sep-15	Jun-15	Sep-14	Sep-12	20 Yr
Federal Funds Rate (%)	0.07 ▼	0.08	0.07	0.09	2.67
Breakeven Infl. - 1 Yr (%)	-1.75 ▼	0.73	-0.19	1.36	N/A
Breakeven Infl. - 10 Yr (%)	1.43 ▼	1.89	1.97	2.42	N/A
CPI YoY (Headline) (%)	0.0 ▼	0.1	1.7	2.0	2.3
Unemployment Rate (%)	5.1 ▼	5.3	5.9	7.8	6.0
Real GDP YoY (%)	2.0 ▼	2.7	2.9	2.4	2.4
PMI - Manufacturing	50.20 ▼	53.50	56.10	51.90	52.10
USD Total Wtd Idx	92.32 ▲	89.96	81.13	72.75	86.55
WTI Crude Oil per Barrel (\$)	45 ▼	59	91	92	55
Gold Spot per Oz (\$)	1,115 ▼	1,172	1,208	1,772	732

Treasury Yield Curve (%)



Market Performance (%)

	QTD	CYTD	1 Yr	5 Yr	10 Yr
S&P 500 (Cap Wtd)	-6.44	-5.29	-0.61	13.34	6.80
Russell 2000	-11.91	-7.73	1.25	11.73	6.55
MSCI EAFE (Net)	-10.23	-5.28	-8.66	3.98	2.97
MSCI EAFE SC (Net)	-6.83	2.62	0.30	7.30	4.65
MSCI Emg Mkts (Net)	-17.90	-15.48	-19.28	-3.57	4.27
Barclays US Agg Bond	1.23	1.13	2.94	3.10	4.64
BofA ML 3 Mo US T-Bill	0.01	0.02	0.02	0.08	1.33
NCREIF ODCE (Gross)	3.68	11.29	14.92	14.02	6.71
Wilshire US REIT	2.88	-3.01	11.67	12.52	6.81
HFN FOF Multi-Strat	-3.92	-1.42	-0.76	2.56	2.12
Bloomberg Cmtdy (TR)	-14.47	-15.80	-25.99	-8.89	-5.67

Treasury data courtesy of the US Department of the Treasury. Economic data courtesy of Bloomberg Professional Service. Breakeven Inflation does not have 20 years of history; therefore, its 20-year average is shown as N/A.

# Total Fund

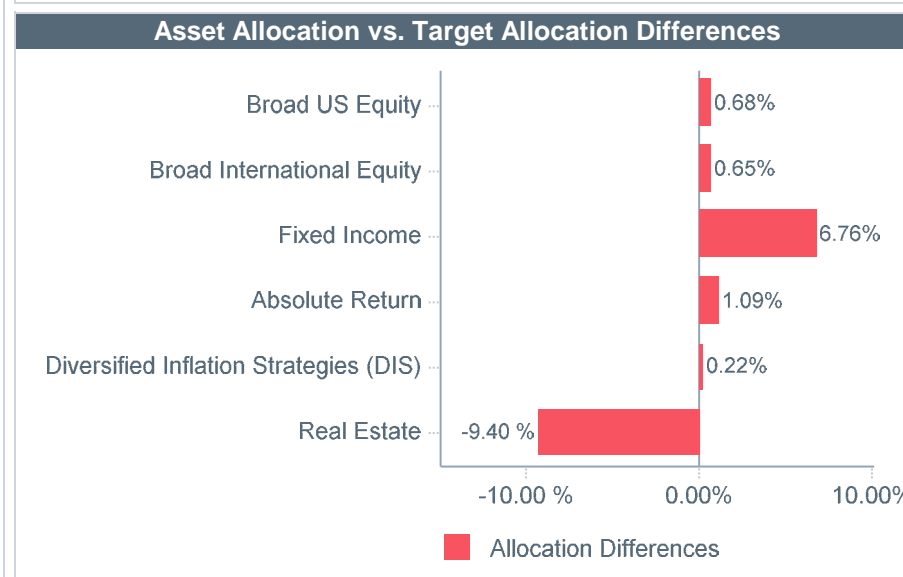


North Dakota Board of University and School Lands  
AA by Manager, AA vs. Target, and Schedule of Investable Assets

As of September 30, 2015

Asset Allocation by Manager		
	Market Value (\$)	Allocation (%)
<b>Broad US Equity</b>		
SSgA S&P 500 Index (US Large Cap)	482,910,386	14.20
SSgA Sm Cap Compl Index (US Small/Mid Cap)	10,041,818	0.30
NT Small Cap Core (US Small Cap)	108,187,544	3.18
<b>Broad International Equity</b>		
SSgA World Ex US Index (International Equity)	426,035,655	12.53
DFA Emg Mkts Core Eq;I (Emerging Markets Equity)	53,505,464	1.57
Harding Loevner:IEM;II (Emerging Markets Equity)	52,874,415	1.55
<b>Fixed Income</b>		
Payden & Rygel Long Term (Investment Grade US FI)	246,922,806	7.26
JP Morgan FI Intermediate Bond (Investment Grade US FI)	248,155,557	7.30
FIA International Fixed Income (International FI)	128,850,862	3.79
Brandywine Gbl Opp FI (Global FI)	87,701,758	2.58
Lazard High Yield (High Yield FI)	108,112,317	3.18
Payden:Low Dur;Inv (Low Duration FI)	22,799,565	0.67
Payden & Rygel Cash (Cash)	152,957,983	4.50
Bank of North Dakota (Project Notes)	1,477,342	0.04
FLP Bank Loan (Loans)	13,632,455	0.40
ECLP Bank Loan (Loans)	1,394,958	0.04
<b>Absolute Return</b>		
GMO:Bchmk-Fr All;IV (GTAA)	244,473,310	7.19
PIMCO:All Ast Ath;Inst (GTAA)	235,807,666	6.93
Westwood Income Opportunity (GTAA)	236,982,136	6.97
<b>Diversified Inflation Strategies (DIS)</b>		
NT Common TIPS Index (TIPS)	76,891,110	2.26
Gresham Commodities (Commodities)	104,588,428	3.08
Harvest MLP (MLPs)	98,504,817	2.90
Van Eck NR Equities (Natural Resources)	67,671,929	1.99
<b>Real Estate</b>		
Morgan Stanley Prime Property Fund (Core Real Estate)	154,029,863	4.53
UBS Trumbull Property Fund, L.P. (Core Real Estate)	25,785,355	0.76
Jamestown Premier Property Fund (Core Plus Real Estate)	10,637,322	0.31

Asset Allocation vs. Target Allocation			
	Market Value (\$)	Allocation (%)	Target (%)
Broad US Equity	601,139,749	17.68	17.00
Broad International Equity	532,415,534	15.65	15.00
Fixed Income	1,012,005,605	29.76	23.00
Absolute Return	717,263,112	21.09	20.00
Diversified Inflation Strategies (DIS)	347,656,284	10.22	10.00
Real Estate	190,452,540	5.60	15.00
Total Fund	3,400,932,823	100.00	100.00



Schedule of Investable Assets						
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return	Unit Value
QTD	3,633,901,517	3,717,475	-236,686,170	3,400,932,823	-6.54	93.46

Allocations shown may not sum up to 100% exactly due to rounding. Performance shown is gross of fees. The portfolio is in the process of transitioning to its new target allocations, resulting in significant variation between actual and target allocations. Interim target allocations are found in the Addendum.

North Dakota Board of University and School Lands  
Comparative Performance

As of September 30, 2015

	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2014	2013	2012	Since Incep.	Inception Date
<b>Total Fund (Net)</b>	<b>-6.63</b>	<b>-5.93</b>	<b>-4.47</b>	<b>4.39</b>	<b>5.87</b>	<b>6.09</b>	<b>4.76</b>	<b>4.78</b>	<b>13.15</b>	<b>11.33</b>	<b>6.53</b>	<b>08/01/1995</b>
Long-Term Target Allocation Index	-5.03	-3.54	-2.45	5.45	6.69	N/A	N/A	5.50	13.12	11.94	N/A	
Difference	-1.60	-2.39	-2.02	-1.06	-0.82	N/A	N/A	-0.72	0.03	-0.61	N/A	
Interim Target Allocation Index	-6.06	-5.53	-4.81	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Difference	-0.57	-0.40	0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
<b>Total Fund (Gross)</b>	<b>-6.54</b>	<b>-5.68</b>	<b>-4.14</b>	<b>4.70</b>	<b>6.15</b>	<b>N/A</b>	<b>N/A</b>	<b>5.10</b>	<b>13.44</b>	<b>11.57</b>	<b>8.44</b>	<b>07/01/2009</b>
Long-Term Target Allocation Index	-5.03	-3.54	-2.45	5.45	6.69	N/A	N/A	5.50	13.12	11.94	9.33	
Difference	-1.51	-2.14	-1.69	-0.75	-0.54	N/A	N/A	-0.40	0.32	-0.37	-0.89	
All Public Plans > \$1B-Total Fund Median	-4.85	-2.29	-0.78	6.71	7.63	7.19	5.90	6.59	15.84	13.37	9.85	
Rank	93	99	98	97	99	N/A	N/A	88	72	89	93	
<b>Broad US Equity</b>	<b>-7.37</b>	<b>-5.87</b>	<b>-0.52</b>	<b>11.27</b>	<b>11.47</b>	<b>N/A</b>	<b>N/A</b>	<b>12.43</b>	<b>28.28</b>	<b>14.66</b>	<b>14.36</b>	<b>07/01/2009</b>
Russell 3000 Index	-7.25	-5.45	-0.49	12.53	13.28	9.91	6.92	12.55	33.55	16.42	15.09	
Difference	-0.12	-0.42	-0.03	-1.26	-1.81	N/A	N/A	-0.12	-5.27	-1.76	-0.73	
IM U.S. Equity (SA+CF) Median	-8.12	-5.15	0.48	13.00	13.35	10.53	7.65	9.95	35.83	16.01	15.53	
Rank	40	61	60	74	80	N/A	N/A	33	91	65	73	
<b>Broad International Equity</b>	<b>-11.50</b>	<b>-8.02</b>	<b>-11.49</b>	<b>6.20</b>	<b>3.44</b>	<b>N/A</b>	<b>N/A</b>	<b>-4.94</b>	<b>26.50</b>	<b>17.72</b>	<b>6.22</b>	<b>07/01/2009</b>
MSCI ACW Ex US Index (Net)	-12.17	-8.63	-12.16	2.34	1.82	3.20	3.03	-3.87	15.29	16.83	5.64	
Difference	0.67	0.61	0.67	3.86	1.62	N/A	N/A	-1.07	11.21	0.89	0.58	
IM International Large Cap Equity (SA+CF) Median	-9.99	-4.24	-6.91	6.26	5.00	5.15	4.36	-3.74	22.56	19.08	8.24	
Rank	74	87	88	51	79	N/A	N/A	64	23	64	89	
<b>Fixed Income</b>	<b>0.07</b>	<b>0.35</b>	<b>1.53</b>	<b>2.01</b>	<b>3.86</b>	<b>N/A</b>	<b>N/A</b>	<b>4.97</b>	<b>-0.36</b>	<b>7.36</b>	<b>5.39</b>	<b>07/01/2009</b>
Barclays Gbl Agg Bond Index	0.85	-2.25	-3.26	-1.59	0.81	3.28	3.71	0.59	-2.60	4.32	2.59	
Difference	-0.78	2.60	4.79	3.60	3.05	N/A	N/A	4.38	2.24	3.04	2.80	
IM Global Fixed Income (SA+CF) Median	-1.31	-1.97	-2.80	1.43	3.00	5.00	4.84	2.47	-0.14	9.00	4.95	
Rank	30	22	18	43	37	N/A	N/A	28	54	60	45	
<b>Absolute Return</b>	<b>-7.04</b>	<b>-6.68</b>	<b>-7.55</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>-7.57</b>	<b>07/01/2014</b>
Absolute Return Custom Index	-5.34	-3.53	-2.49	5.10	5.66	6.22	5.13	4.77	12.74	11.63	-3.28	
Difference	-1.70	-3.15	-5.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-4.29	
Consumer Price Index + 5%	0.93	5.11	4.96	5.98	6.81	6.27	6.90	5.79	6.58	6.83	4.86	
Difference	-7.97	-11.79	-12.51	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-12.43	

Performance shown is gross of fees except where noted. Performance for plan sponsor peer groups are shown gross of fees. Composite inception dates are based on availability of data for each asset class. The portfolio is in the process of transitioning to its new target allocations, resulting in significant variation between actual and target allocations. RVK began monitoring the assets of North Dakota Board of University and School Lands in Q3 2014. RVK endorses GIPS and calculates performance for composites and investment managers using different methodologies. For additional information, please see the Glossary.

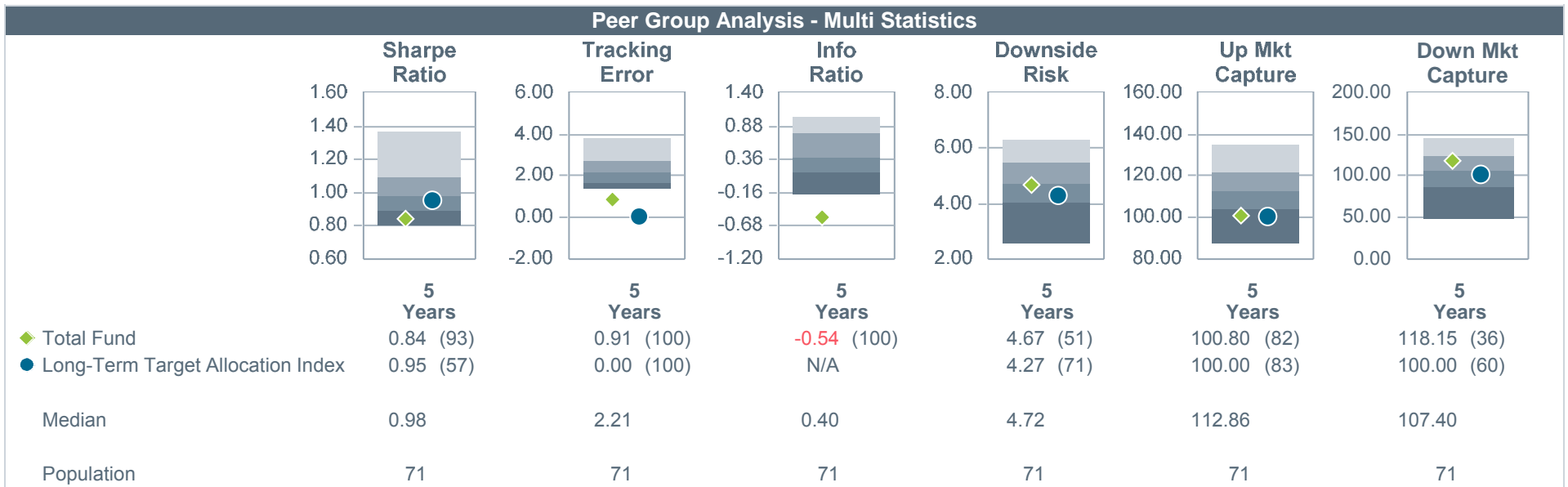
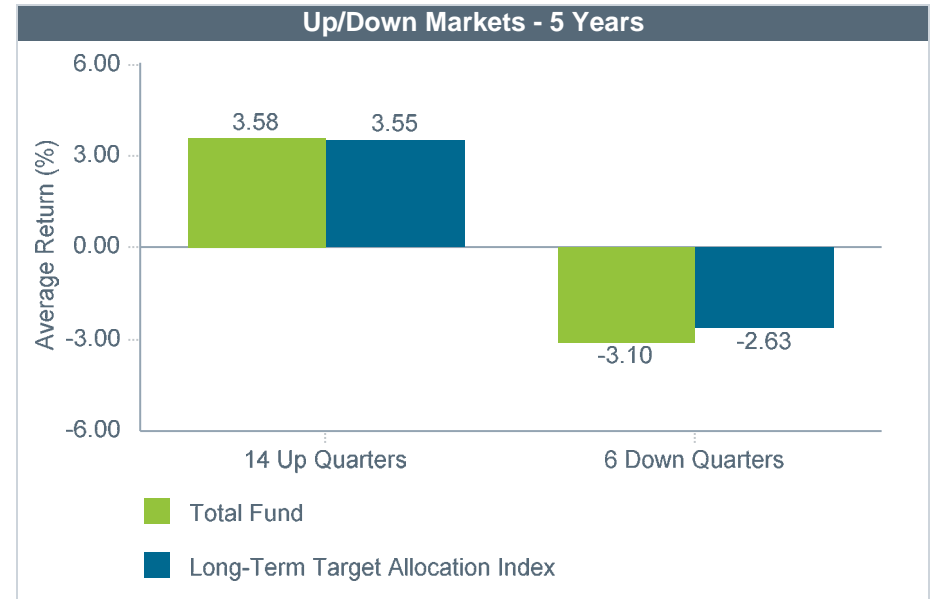
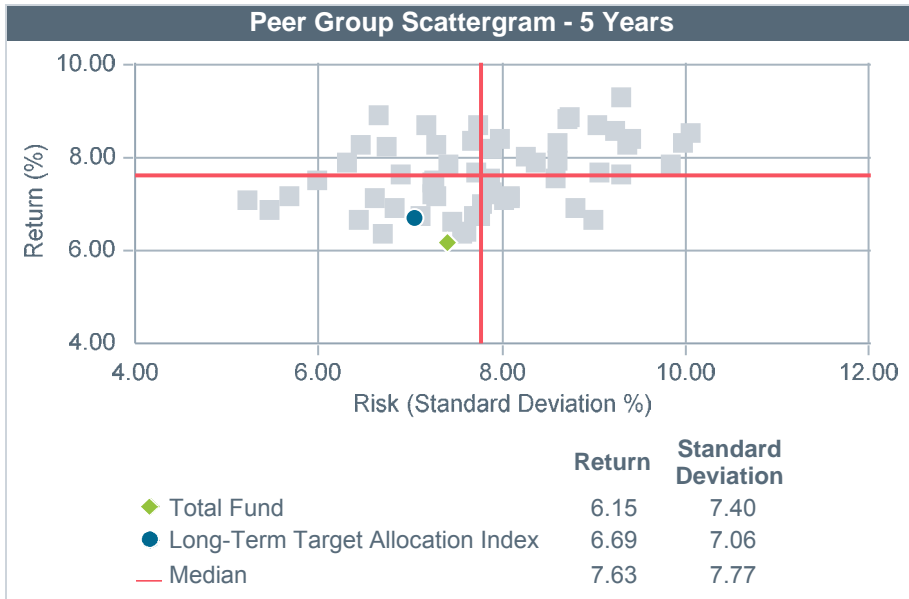


North Dakota Board of University and School Lands  
Comparative Performance

As of September 30, 2015

	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2014	2013	2012	Since Incep.	Inception Date
<b>Diversified Inflation Strategies (DIS)</b>	<b>-16.94</b>	<b>-19.38</b>	<b>-12.09</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>-6.50</b>	<b>04/01/2014</b>
DIS Custom Index	-15.17	-16.20	-12.85	-2.46	2.47	3.65	3.68	9.69	-2.19	17.59	-7.30	
Difference	-1.77	-3.18	0.76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.80	
<b>Real Estate</b>	<b>3.76</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>3.76</b>	<b>07/01/2015</b>
NCREIF ODCE Index (Gross) (AWA)	3.68	11.29	14.92	13.45	14.02	4.23	6.71	12.50	13.94	10.94	3.68	
Difference	0.08	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.08	

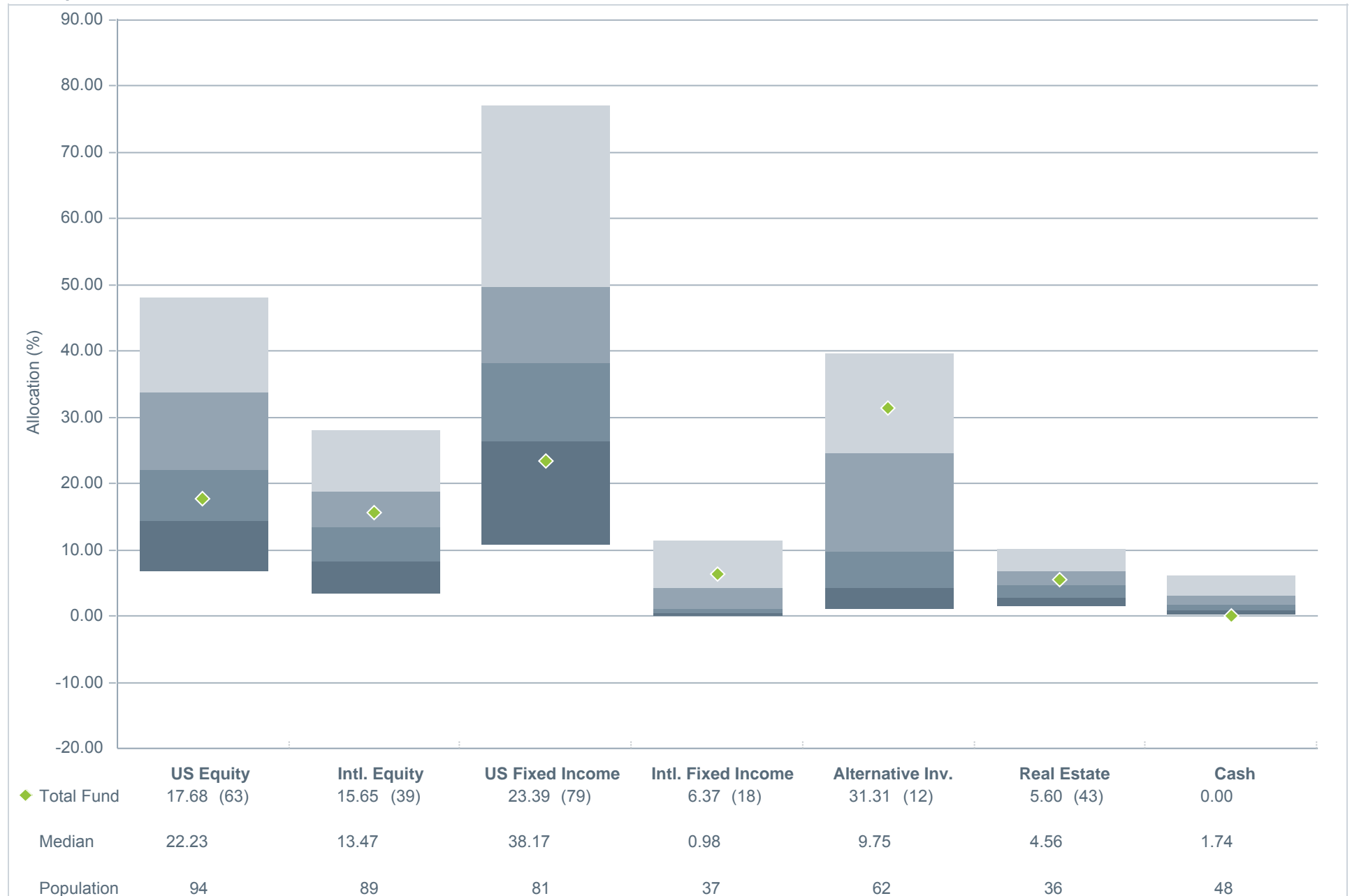
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Performance shown is gross of fees. Calculation is based on quarterly periodicity. Parentheses contain percentile ranks.

North Dakota Board of University and School Lands  
 All Corporate Plans > \$1B-Total Fund  
 Plan Sponsor TF Asset Allocation

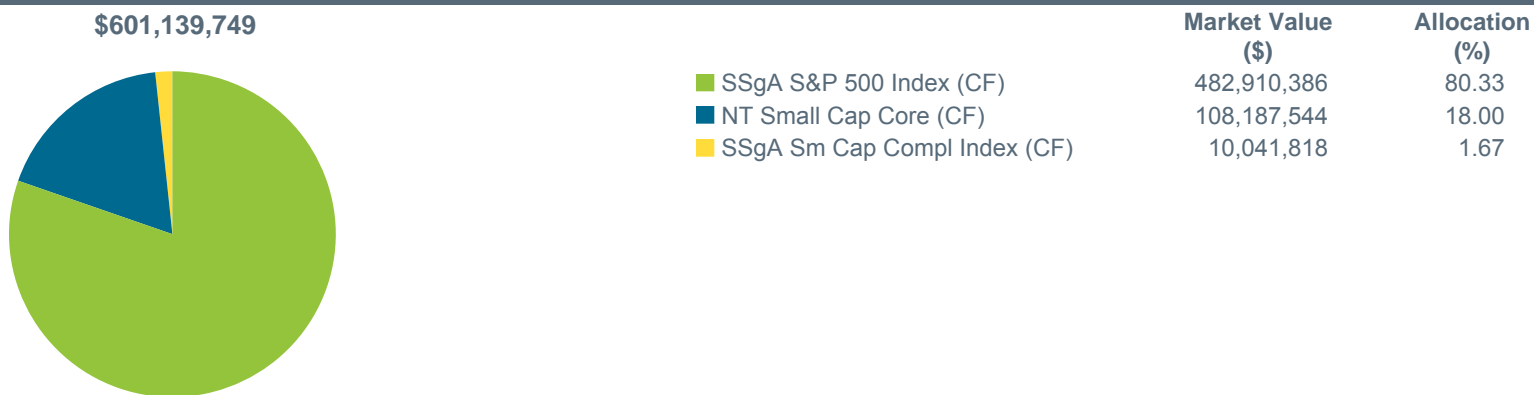
As of September 30, 2015



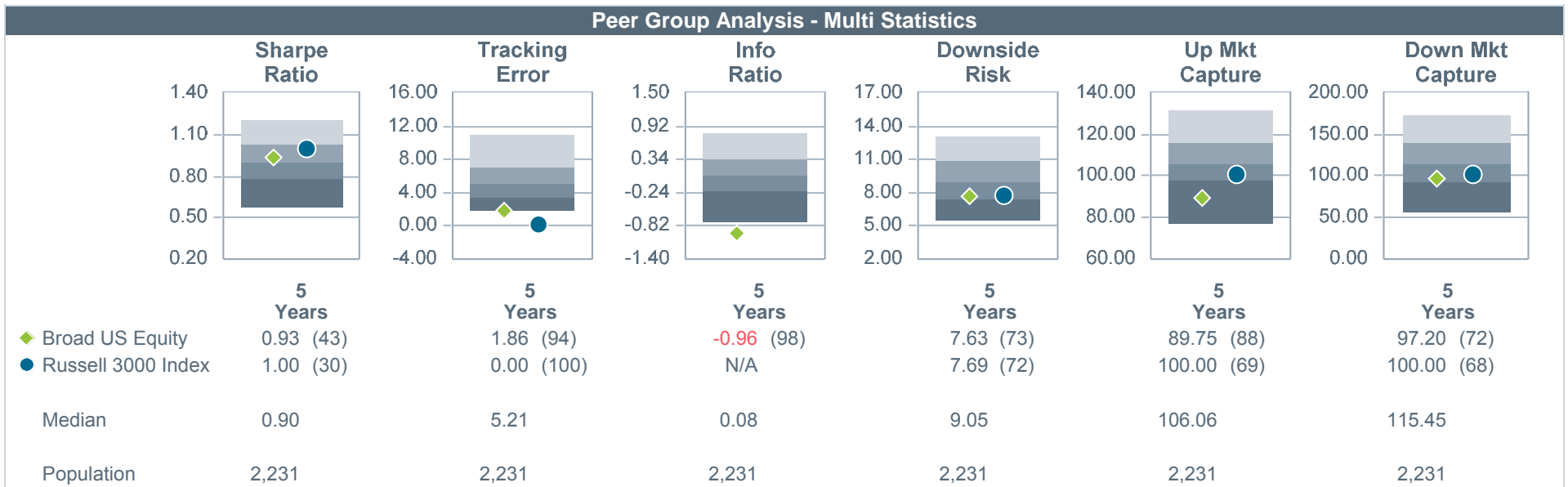
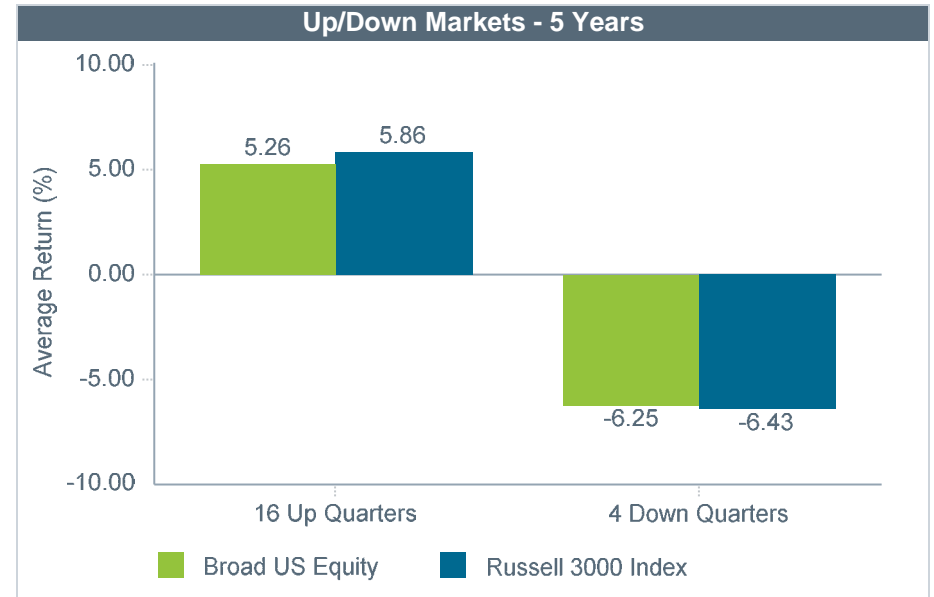
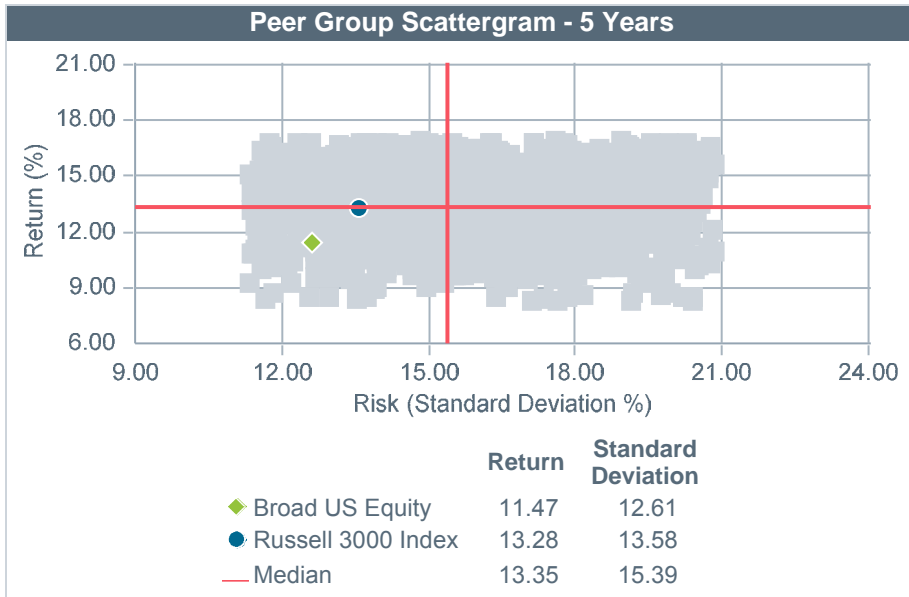
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Comparative Performance													
	QTD	CYTD	1 Year	3 Years	5 Years	10 Years	2014	2013	2012	2011	2010	Since Incep.	Inception Date
<b>Broad US Equity</b>	<b>-7.37</b>	<b>-5.87</b>	<b>-0.52</b>	<b>11.27</b>	<b>11.47</b>	<b>N/A</b>	<b>12.43</b>	<b>28.28</b>	<b>14.66</b>	<b>0.22</b>	<b>18.85</b>	<b>14.36</b>	<b>07/01/2009</b>
Russell 3000 Index	-7.25	-5.45	-0.49	12.53	13.28	6.92	12.55	33.55	16.42	1.03	16.93	15.09	
Difference	-0.12	-0.42	-0.03	-1.26	-1.81	N/A	-0.12	-5.27	-1.76	-0.81	1.92	-0.73	
<b>SSgA S&amp;P 500 Index (CF)</b>	<b>-6.43</b>	<b>-5.31</b>	<b>-0.63</b>	<b>12.39</b>	<b>13.33</b>	<b>N/A</b>	<b>13.69</b>	<b>32.38</b>	<b>15.98</b>	<b>2.12</b>	<b>15.12</b>	<b>7.42</b>	<b>04/01/2008</b>
S&P 500 Index (Cap Wtd)	-6.44	-5.29	-0.61	12.40	13.34	6.80	13.69	32.39	16.00	2.11	15.06	7.41	
Difference	0.01	-0.02	-0.02	-0.01	-0.01	N/A	0.00	-0.01	-0.02	0.01	0.06	0.01	
IM U.S. Large Cap Equity (SA+CF) Median	-6.80	-5.06	-0.37	13.01	13.40	7.32	12.89	33.57	15.87	1.19	15.10	7.83	
Rank	41	56	57	63	54	N/A	36	65	49	40	50	63	
<b>SSgA Sm Cap Compl Index (CF)</b>	<b>-10.27</b>	<b>-5.26</b>	<b>0.78</b>	<b>13.25</b>	<b>13.07</b>	<b>N/A</b>	<b>7.36</b>	<b>38.49</b>	<b>18.22</b>	<b>-3.53</b>	<b>26.71</b>	<b>18.34</b>	<b>02/01/2009</b>
Russell Sm Cap Compl Index	-10.47	-6.22	-0.23	12.86	12.75	7.58	7.40	38.50	18.05	-3.92	26.64	18.03	
Difference	0.20	0.96	1.01	0.39	0.32	N/A	-0.04	-0.01	0.17	0.39	0.07	0.31	
IM U.S. SMID Cap Equity (SA+CF) Median	-9.75	-4.76	0.58	13.10	13.07	8.56	7.21	37.45	16.82	-2.05	26.57	18.07	
Rank	61	57	48	48	50	N/A	48	44	39	65	49	43	
<b>NT Small Cap Core (CF)</b>	<b>-11.20</b>	<b>-9.00</b>	<b>-0.56</b>	<b>10.26</b>	<b>11.09</b>	<b>6.36</b>	<b>3.37</b>	<b>37.57</b>	<b>18.30</b>	<b>-4.56</b>	<b>24.71</b>	<b>9.83</b>	<b>03/01/1996</b>
Russell 2000 Custom Index	-11.91	-7.73	1.25	12.10	12.52	7.32	8.25	36.80	17.88	-2.51	26.71	9.31	
Difference	0.71	-1.27	-1.81	-1.84	-1.43	-0.96	-4.88	0.77	0.42	-2.05	-2.00	0.52	
IM U.S. Small Cap Core Equity (SA+CF) Median	-9.70	-4.77	3.28	13.90	13.81	7.91	6.54	41.46	17.06	-1.55	28.28	11.19	
Rank	78	90	78	87	90	80	76	82	38	76	79	81	

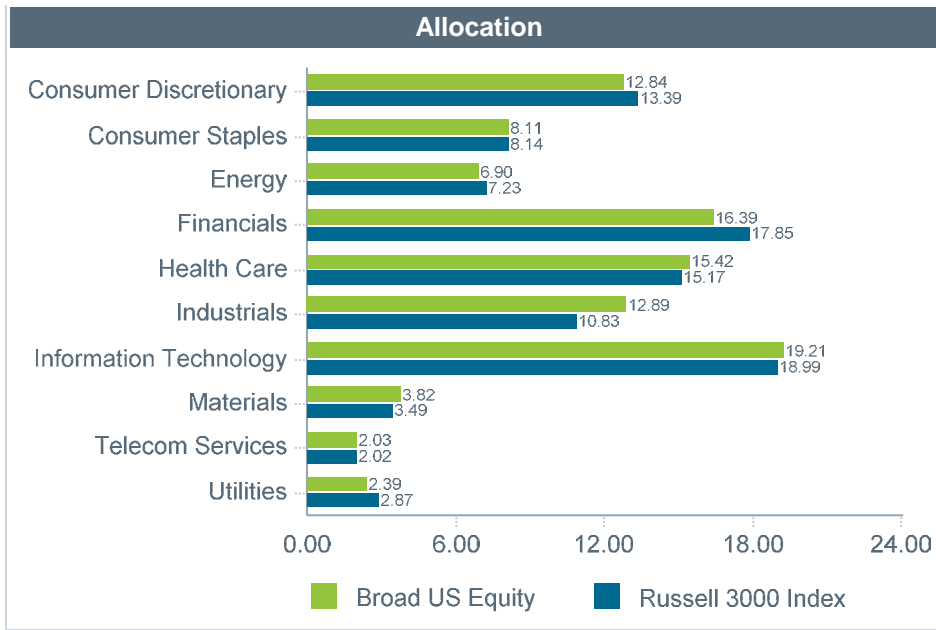
Asset Allocation by Manager



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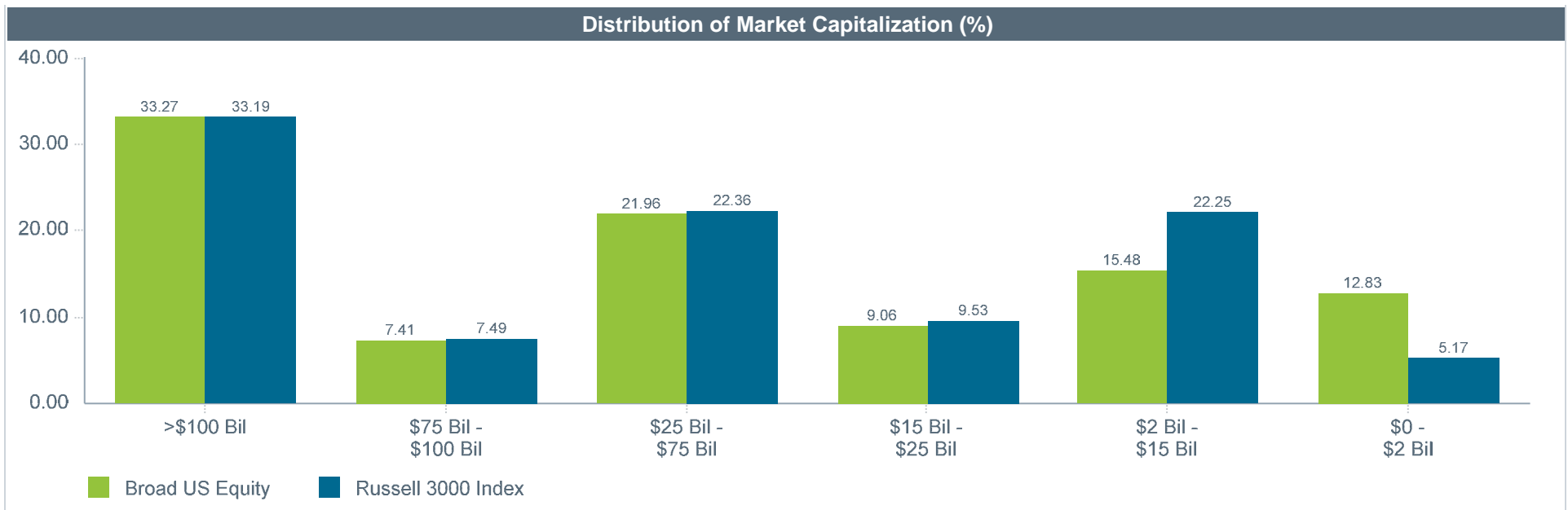


Performance shown is gross of fees. Calculation is based on quarterly periodicity. Parentheses contain percentile ranks.



### Portfolio Characteristics

	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	102,836	103,379
Median Mkt. Cap (\$M)	1,421	1,389
Price/Earnings Ratio	18.63	18.19
Price/Book Ratio	2.84	2.87
5 Yr. EPS Growth Rate (%)	10.73	11.59
Current Yield (%)	2.10	2.14
Beta (5 Years, Monthly)	0.96	1.00
Number of Securities	2,957	2,986

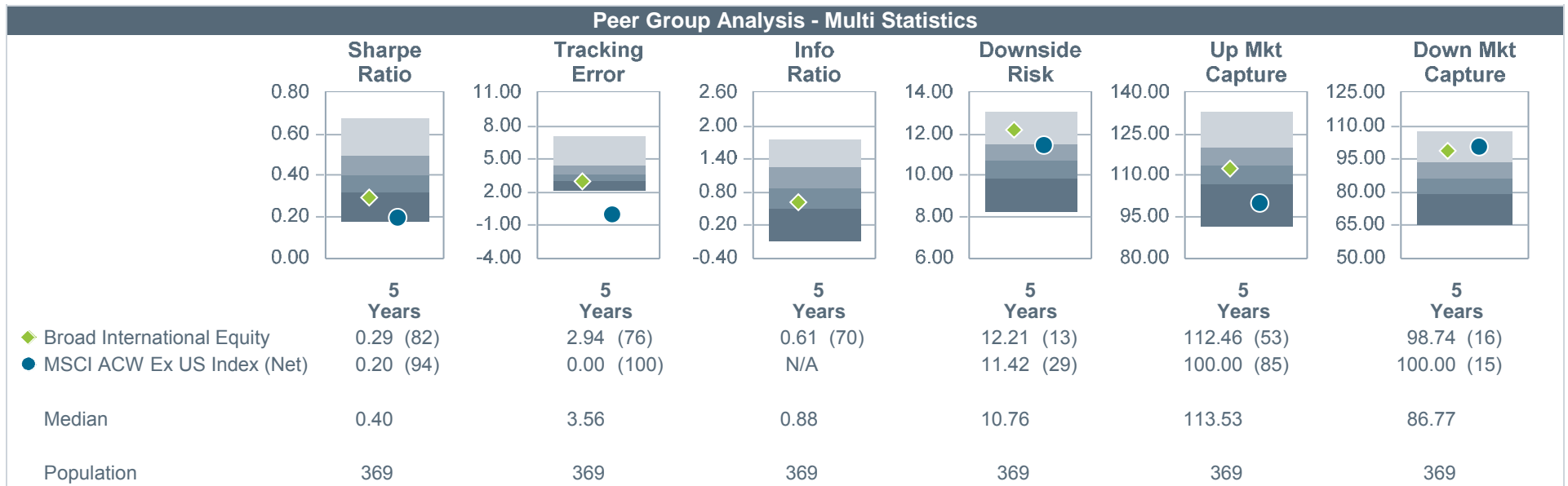
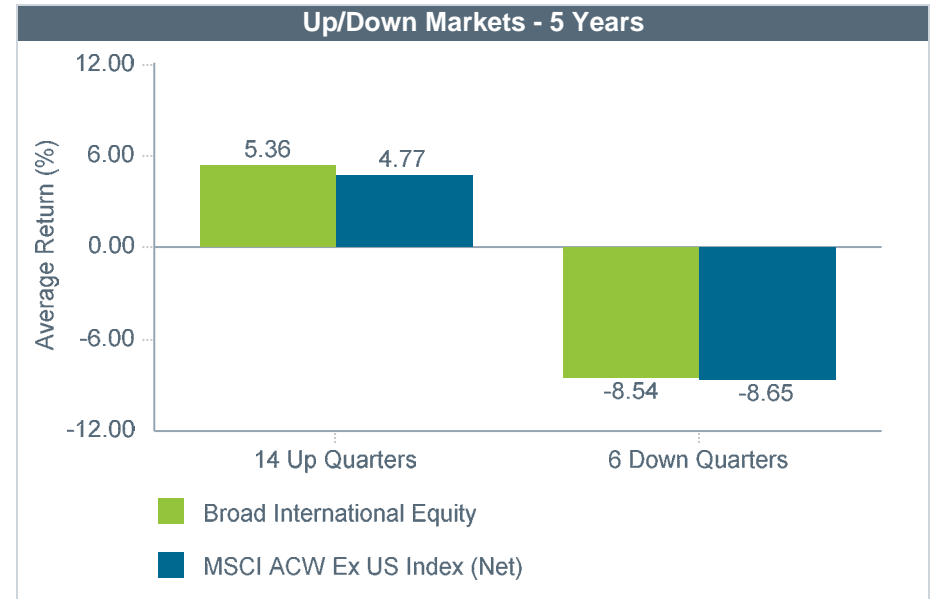
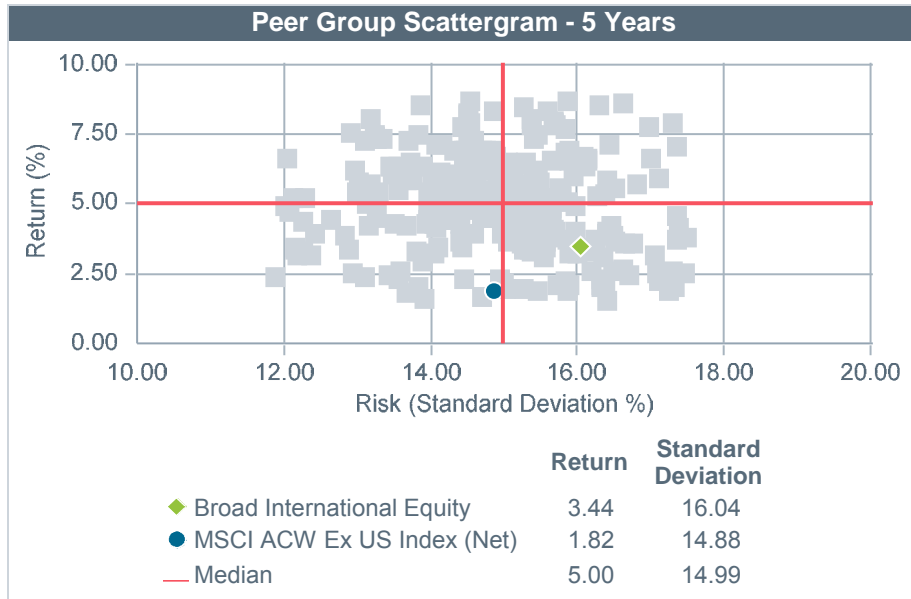


Comparative Performance													
	QTD	CYTD	1 Year	3 Years	5 Years	10 Years	2014	2013	2012	2011	2010	Since Incep.	Inception Date
<b>Broad International Equity</b>	<b>-11.50</b>	<b>-8.02</b>	<b>-11.49</b>	<b>6.20</b>	<b>3.44</b>	<b>N/A</b>	<b>-4.94</b>	<b>26.50</b>	<b>17.72</b>	<b>-14.73</b>	<b>7.76</b>	<b>6.22</b>	<b>07/01/2009</b>
MSCI ACW Ex US Index (Net)	-12.17	-8.63	-12.16	2.34	1.82	3.03	-3.87	15.29	16.83	-13.71	11.15	5.64	
Difference	0.67	0.61	0.67	3.86	1.62	N/A	-1.07	11.21	0.89	-1.02	-3.39	0.58	
<b>SSgA World Ex US Index (CF)</b>	<b>-10.57</b>	<b>-6.72</b>	<b>-10.17</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>-12.47</b>	<b>07/01/2014</b>
MSCI Wrld Ex US Index (Net)	-10.57	-6.69	-10.14	4.60	3.42	2.92	-4.32	21.02	16.41	-12.21	8.95	-12.44	
Difference	0.00	-0.03	-0.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-0.03	
IM International Large Cap Equity (SA+CF) Median	-9.99	-4.24	-6.91	6.26	5.00	4.36	-3.74	22.56	19.08	-11.54	11.50	-9.56	
Rank	62	77	81	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	82	
<b>DFA Emg Mkts Core Eq;I (DFCEX)</b>	<b>-16.49</b>	<b>-14.29</b>	<b>-18.17</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>-16.91</b>	<b>07/01/2014</b>
MSCI Emg Mkts Index (Net)	-17.90	-15.48	-19.28	-5.27	-3.57	4.27	-2.19	-2.60	18.23	-18.42	18.88	-18.11	
Difference	1.41	1.19	1.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.20	
IM Emerging Markets Equity (SA+CF) Median	-16.15	-14.16	-17.72	-3.25	-1.91	5.45	-0.23	0.77	20.53	-18.29	21.69	-16.41	
Rank	57	52	58	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	57	
<b>Harding Loevner:IEM;II (HLEEX)</b>	<b>-15.24</b>	<b>-13.22</b>	<b>-16.35</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>-16.41</b>	<b>07/01/2014</b>
MSCI Emg Mkts Index (Net)	-17.90	-15.48	-19.28	-5.27	-3.57	4.27	-2.19	-2.60	18.23	-18.42	18.88	-18.11	
Difference	2.66	2.26	2.93	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.70	
IM Emerging Markets Equity (SA+CF) Median	-16.15	-14.16	-17.72	-3.25	-1.91	5.45	-0.23	0.77	20.53	-18.29	21.69	-16.41	
Rank	33	41	41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	51	

Asset Allocation by Manager

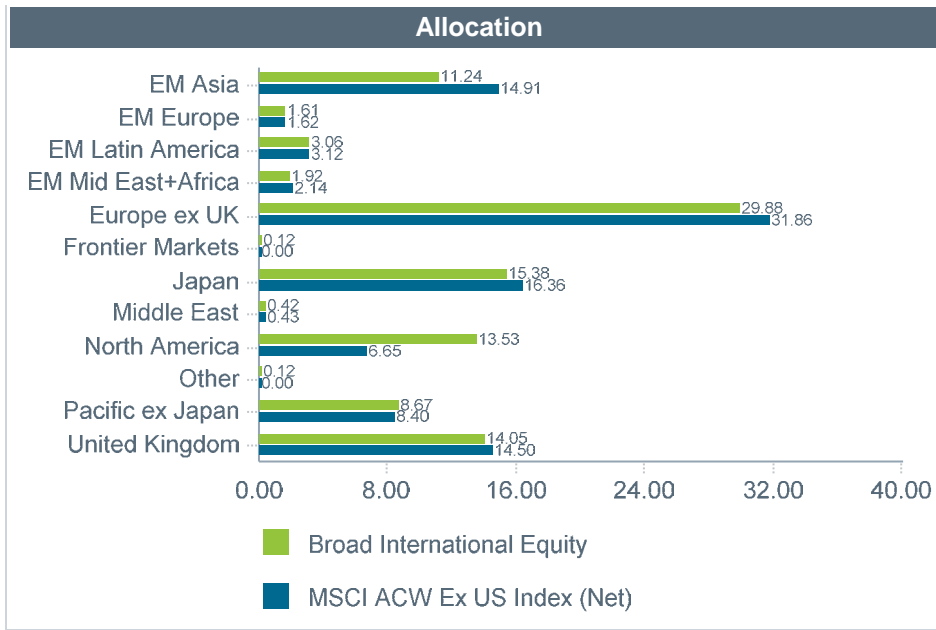


Performance shown is gross of fees. RVK began monitoring the assets of North Dakota Board of University and School Lands in Q3 2014. RVK endorses GIPS and calculates performance for composites and investment managers using different methodologies.



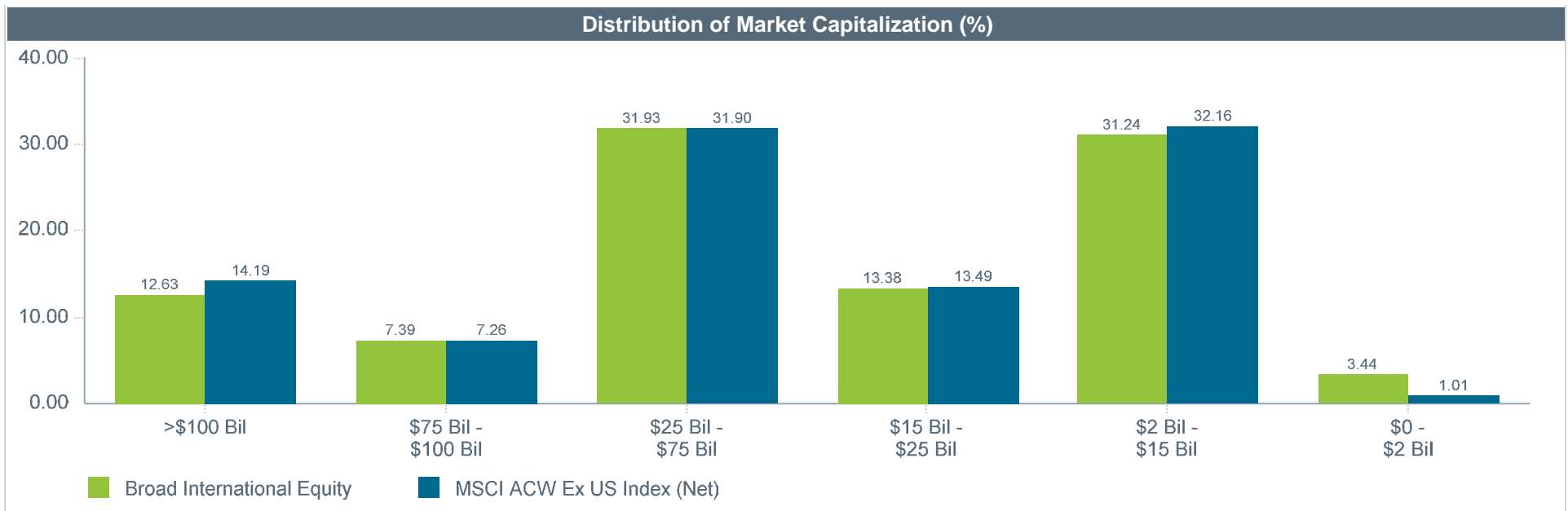
Performance shown is gross of fees. Calculation is based on quarterly periodicity. Parentheses contain percentile ranks.





### Portfolio Characteristics

	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	47,411	49,868
Median Mkt. Cap (\$M)	779	6,506
Price/Earnings Ratio	14.40	14.06
Price/Book Ratio	2.18	2.19
5 Yr. EPS Growth Rate (%)	9.35	9.34
Current Yield (%)	3.27	3.35
Beta (5 Years, Monthly)	1.05	1.00
Number of Securities	5,128	1,843



Allocation to "Other" consists of holdings domiciled in countries/regions that do not meet the economic development, size, liquidity, or market accessibility criteria as defined by the MSCI region standards.

Comparative Performance													
	QTD	CYTD	1 Year	3 Years	5 Years	10 Years	2014	2013	2012	2011	2010	Since Incep.	Inception Date
<b>Fixed Income</b>	<b>0.07</b>	<b>0.35</b>	<b>1.53</b>	<b>2.01</b>	<b>3.86</b>	<b>N/A</b>	<b>4.97</b>	<b>-0.36</b>	<b>7.36</b>	<b>7.07</b>	<b>7.84</b>	<b>5.39</b>	<b>07/01/2009</b>
Barclays Gbl Agg Bond Index	0.85	-2.25	-3.26	-1.59	0.81	3.71	0.59	-2.60	4.32	5.64	5.54	2.59	
Difference	-0.78	2.60	4.79	3.60	3.05	N/A	4.38	2.24	3.04	1.43	2.30	2.80	
<b>Payden &amp; Rygel Long Term (SA)</b>	<b>0.99</b>	<b>1.14</b>	<b>2.50</b>	<b>2.16</b>	<b>3.95</b>	<b>5.28</b>	<b>6.01</b>	<b>-1.25</b>	<b>9.04</b>	<b>5.48</b>	<b>9.08</b>	<b>6.35</b>	<b>08/01/1995</b>
Barclays US Agg Bond Index	1.23	1.13	2.94	1.71	3.10	4.64	5.97	-2.02	4.21	7.84	6.54	5.65	
Difference	-0.24	0.01	-0.44	0.45	0.85	0.64	0.04	0.77	4.83	-2.36	2.54	0.70	
IM U.S. Broad Market Core Fixed Income (SA+CF) Median	1.15	1.27	3.02	2.05	3.60	5.06	6.16	-1.56	5.78	7.84	7.23	6.02	
Rank	70	66	80	35	27	29	63	33	5	98	10	18	
<b>JP Morgan FI Intermediate Bond (SA)</b>	<b>1.14</b>	<b>2.08</b>	<b>3.07</b>	<b>1.81</b>	<b>N/A</b>	<b>N/A</b>	<b>3.97</b>	<b>-0.91</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>1.94</b>	<b>08/01/2012</b>
Barclays US Gov't/Credit: Int Trm Bond Index	0.95	1.77	2.68	1.45	2.42	4.17	3.13	-0.86	3.89	5.80	5.89	1.51	
Difference	0.19	0.31	0.39	0.36	N/A	N/A	0.84	-0.05	N/A	N/A	N/A	0.43	
IM U.S. Intermediate Duration Fixed Income (SA+CF) Median	0.92	1.75	2.69	1.71	2.85	4.60	3.56	-0.50	4.98	5.87	6.43	1.86	
Rank	19	16	22	43	N/A	N/A	35	76	N/A	N/A	N/A	43	
<b>FIA International Fixed Income (SA)</b>	<b>1.67</b>	<b>-0.03</b>	<b>3.39</b>	<b>4.55</b>	<b>4.45</b>	<b>5.21</b>	<b>13.10</b>	<b>-0.80</b>	<b>7.81</b>	<b>5.11</b>	<b>6.33</b>	<b>5.36</b>	<b>05/01/2004</b>
Barclays Gbl Agg Ex USD Index (Hedged)	1.48	0.75	3.37	3.95	3.80	4.26	8.79	1.18	6.46	3.94	3.28	4.52	
Difference	0.19	-0.78	0.02	0.60	0.65	0.95	4.31	-1.98	1.35	1.17	3.05	0.84	
IM International Fixed Income (SA+CF) Median	-4.10	-3.53	-6.41	-0.60	2.52	6.47	1.55	-4.73	17.37	4.37	13.95	8.01	
Rank	5	23	7	8	28	62	2	27	82	42	84	75	

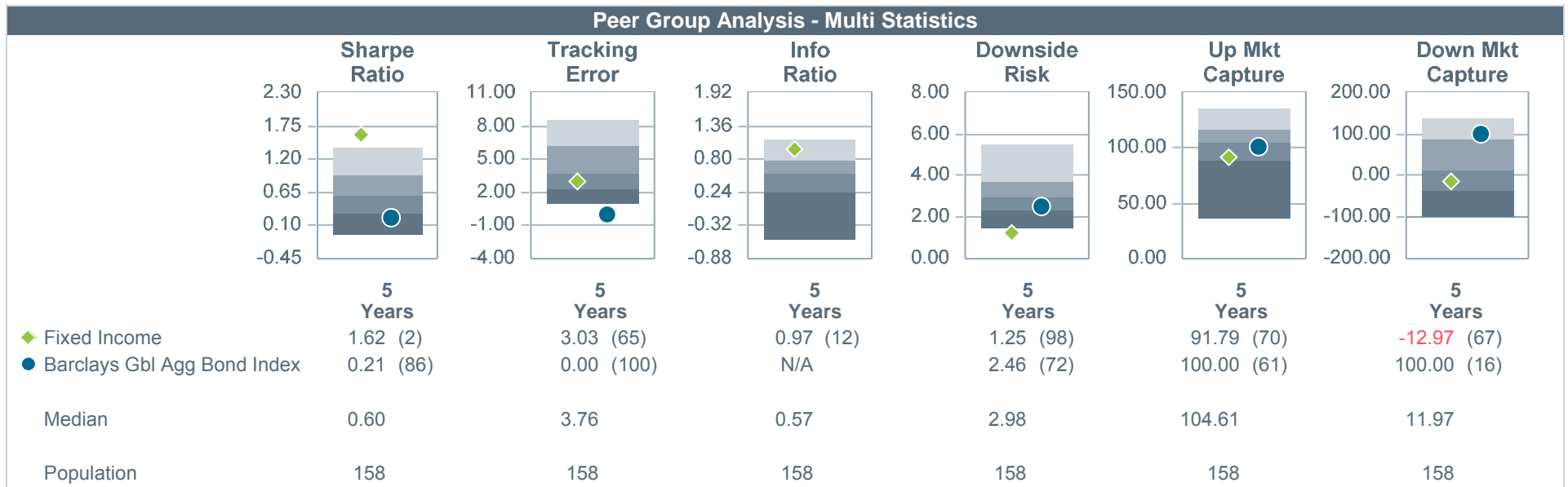
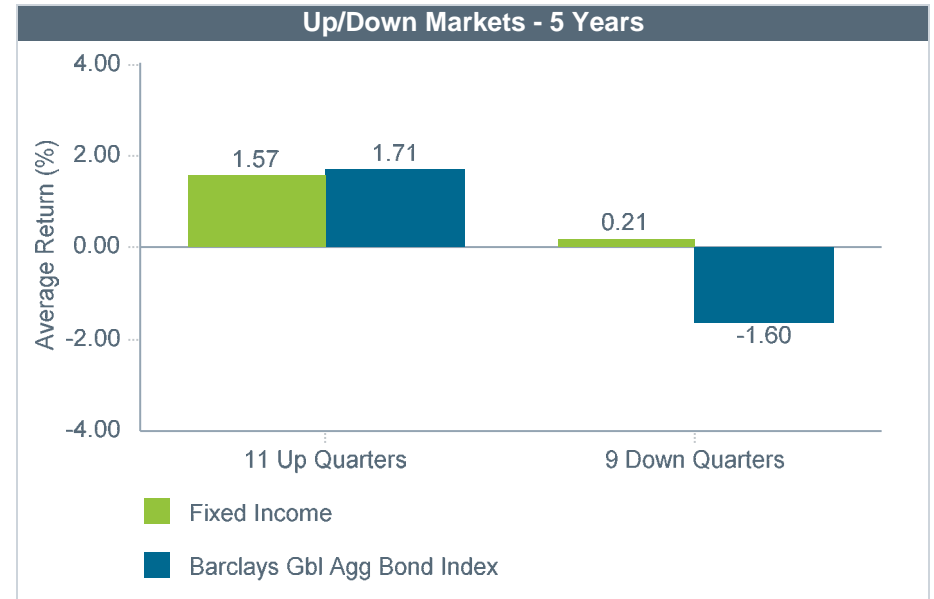
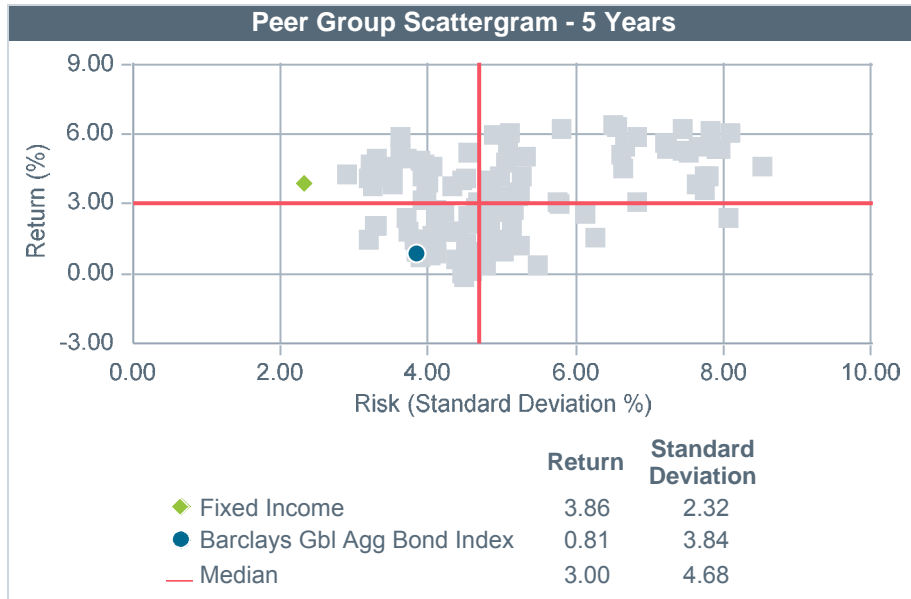
Asset Allocation by Manager



Performance shown is gross of fees. RVK began monitoring the assets of North Dakota Board of University and School Lands in Q3 2014. RVK endorses GIPS and calculates performance for composites and investment managers using different methodologies.

Comparative Performance													
	QTD	CYTD	1 Year	3 Years	5 Years	10 Years	2014	2013	2012	2011	2010	Since Incep.	Inception Date
<b>Brandywine Gbl Opp FI (CF)</b>	<b>-4.18</b>	<b>-7.52</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>-8.58</b>	<b>11/01/2014</b>
Citi Wrld Gov't Bond Index	1.71	-2.38	-3.83	-2.85	-0.19	3.37	-0.48	-4.00	1.65	6.35	5.17	-3.59	
Difference	-5.89	-5.14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-4.99	
IM Global Fixed Income (SA+CF) Median	-1.31	-1.97	-2.80	1.43	3.00	4.84	2.47	-0.14	9.00	4.83	8.10	-2.95	
Rank	80	95	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	94	
<b>Lazard High Yield (SA)</b>	<b>-3.09</b>	<b>-0.17</b>	<b>0.90</b>	<b>4.16</b>	<b>6.00</b>	<b>6.66</b>	<b>4.00</b>	<b>6.15</b>	<b>11.94</b>	<b>6.30</b>	<b>11.59</b>	<b>6.64</b>	<b>01/01/2004</b>
BofA ML US Hi Yld BB-B Rated Index	-4.31	-1.74	-2.11	3.68	6.01	6.70	3.47	6.31	14.71	5.43	14.50	6.75	
Difference	1.22	1.57	3.01	0.48	-0.01	-0.04	0.53	-0.16	-2.77	0.87	-2.91	-0.11	
IM U.S. High Yield Bonds (SA+CF) Median	-3.90	-0.90	-1.74	4.16	6.42	7.24	2.74	7.55	15.38	5.27	15.03	7.32	
Rank	30	31	15	51	66	77	21	83	87	30	94	85	
<b>Payden:Low Dur;Inv (PYSBX)</b>	<b>-0.20</b>	<b>1.00</b>	<b>1.07</b>	<b>1.33</b>	<b>2.82</b>	<b>4.34</b>	<b>1.21</b>	<b>0.99</b>	<b>5.03</b>	<b>5.86</b>	<b>5.31</b>	<b>4.41</b>	<b>04/01/2002</b>
Barclays US Trsy: 1-3 Yr Index	0.31	1.00	1.19	0.68	0.76	2.55	0.63	0.36	0.43	1.55	2.40	2.60	
Difference	-0.51	0.00	-0.12	0.65	2.06	1.79	0.58	0.63	4.60	4.31	2.91	1.81	
IM U.S. Short Duration Fixed Income (SA+CF) Median	0.34	1.17	1.40	1.13	1.60	3.19	1.26	0.67	2.45	2.12	3.65	3.18	
Rank	97	78	80	26	5	3	56	25	8	1	11	1	
<b>Payden &amp; Rygel Cash (SA)</b>	<b>0.02</b>	<b>0.05</b>	<b>0.06</b>	<b>0.08</b>	<b>0.09</b>	<b>1.47</b>	<b>0.05</b>	<b>0.06</b>	<b>0.14</b>	<b>0.13</b>	<b>0.17</b>	<b>2.90</b>	<b>08/01/1995</b>
BofA ML 3 Mo US T-Bill Index	0.01	0.02	0.02	0.06	0.08	1.33	0.04	0.07	0.11	0.10	0.13	2.64	
Difference	0.01	0.03	0.04	0.02	0.01	0.14	0.01	-0.01	0.03	0.03	0.04	0.26	
<b>Bank of North Dakota (SA)</b>	<b>0.93</b>	<b>3.73</b>	<b>4.58</b>	<b>3.87</b>	<b>3.60</b>	<b>5.58</b>	<b>6.24</b>	<b>1.04</b>	<b>3.31</b>	<b>2.40</b>	<b>10.13</b>	<b>6.12</b>	<b>08/01/1995</b>
<b>FLP Bank Loan</b>	<b>1.59</b>	<b>4.59</b>	<b>6.08</b>	<b>5.80</b>	<b>5.96</b>	<b>6.63</b>	<b>5.85</b>	<b>5.52</b>	<b>5.89</b>	<b>6.36</b>	<b>6.50</b>	<b>7.43</b>	<b>08/01/1995</b>
<b>ECLP Bank Loan</b>	<b>1.26</b>	<b>3.81</b>	<b>5.11</b>	<b>5.12</b>	<b>N/A</b>	<b>N/A</b>	<b>5.03</b>	<b>5.16</b>	<b>5.58</b>	<b>5.97</b>	<b>N/A</b>	<b>5.41</b>	<b>11/01/2010</b>

Performance shown is gross of fees, except for FLP & ECLP Bank Loans which are shown net of fees. RVK began monitoring the assets of North Dakota Board of University and School Lands in Q3 2014. RVK endorses GIPS and calculates performance for composites and investment managers using different methodologies.

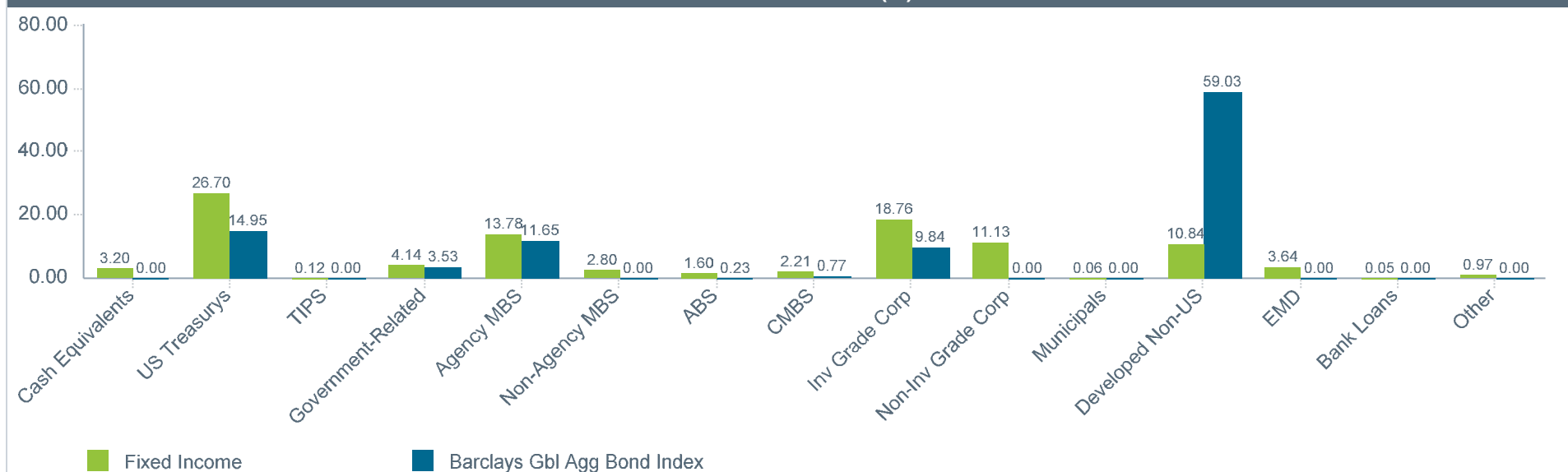


Performance shown is gross of fees. Calculation is based on quarterly periodicity. Parentheses contain percentile ranks.

Portfolio Characteristics

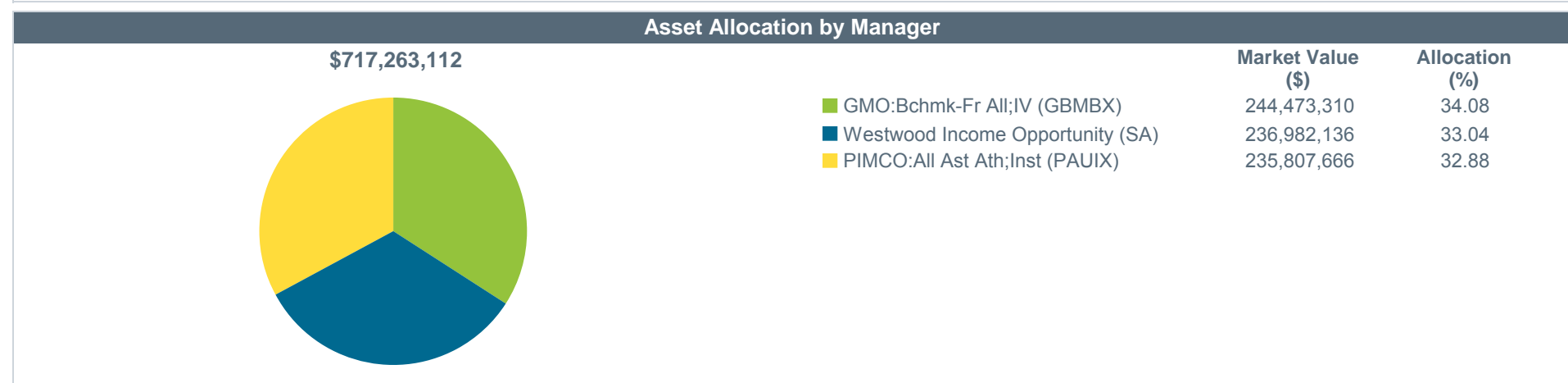
	Portfolio	Benchmark
Effective Duration	4.05	6.58
Modified Duration	4.16	6.46
Avg. Maturity	5.94	8.44
Avg. Quality	A1	N/A
Coupon Rate (%)	3.09	2.99
Yield To Worst (%)	2.42	1.66
Current Yield (%)	2.99	0.03

Sector Distribution (%)



Allocation to "Other" consists of non-corporate credit, municipal bonds, and derivatives. FLP Bank Loan and ECLP Bank Loan are excluded from portfolio characteristics and sector distribution.

Comparative Performance													
	QTD	CYTD	1 Year	3 Years	5 Years	10 Years	2014	2013	2012	2011	2010	Since Incep.	Inception Date
<b>Absolute Return</b>	<b>-7.04</b>	<b>-6.68</b>	<b>-7.55</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<b>-7.57</b>	07/01/2014
Absolute Return Custom Index	-5.34	-3.53	-2.49	5.10	5.66	5.13	4.77	12.74	11.63	-1.47	11.76	-3.28	
Difference	-1.70	-3.15	-5.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-4.29	
<b>GMO:Bchmk-Fr All;IV (GBMBX)</b>	<b>-6.44</b>	<b>-5.05</b>	<b>-5.62</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<b>-6.27</b>	07/01/2014
60% MSCI ACW Index (Net)/40% B Gbl Agg Bond Index	-5.38	-5.01	-5.17	3.56	4.55	4.53	2.78	12.05	11.45	-2.07	10.16	-6.18	
Difference	-1.06	-0.04	-0.45	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-0.09	
<b>PIMCO:All Ast Ath;Inst (PAUIX)</b>	<b>-9.81</b>	<b>-9.88</b>	<b>-13.69</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<b>-13.70</b>	07/01/2014
All Asset Custom Index	-2.87	-2.06	-1.59	2.93	4.51	4.91	3.73	6.10	8.92	3.48	8.73	-2.17	
Difference	-6.94	-7.82	-12.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-11.53	
<b>Westwood Income Opportunity (SA)</b>	<b>-4.84</b>	<b>-5.05</b>	<b>-3.11</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<b>-2.52</b>	07/01/2014
Westwood Custom Index	-0.62	-1.66	3.57	5.85	7.47	5.76	12.88	6.15	9.97	7.32	13.11	2.74	
Difference	-4.22	-3.39	-6.68	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-5.26	



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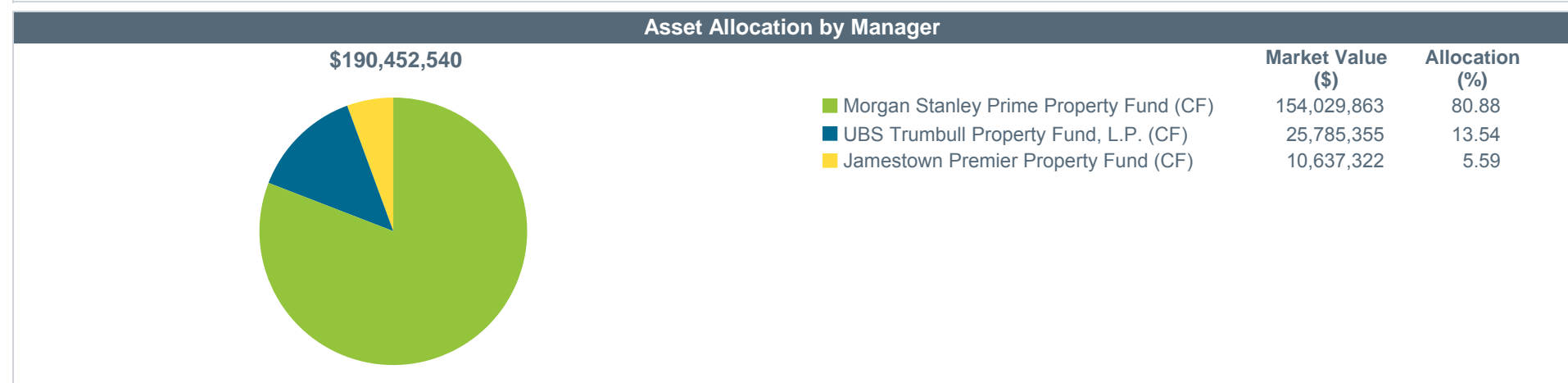
Comparative Performance													
	QTD	CYTD	1 Year	3 Years	5 Years	10 Years	2014	2013	2012	2011	2010	Since Incep.	Inception Date
<b>Diversified Inflation Strategies (DIS)</b>	<b>-16.94</b>	<b>-19.38</b>	<b>-12.09</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>-6.50</b>	<b>04/01/2014</b>
DIS Custom Index	-15.17	-16.20	-12.85	-2.46	2.47	3.68	9.69	-2.19	17.59	3.94	13.73	-7.30	
Difference	-1.77	-3.18	0.76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.80	
<b>NT Common TIPS Index (CF)</b>	<b>-1.17</b>	<b>-0.83</b>	<b>-0.95</b>	<b>-1.82</b>	<b>2.57</b>	<b>4.12</b>	<b>3.69</b>	<b>-8.58</b>	<b>6.94</b>	<b>13.91</b>	<b>6.49</b>	<b>4.46</b>	<b>06/01/2004</b>
Barclays US Trsy: US TIPS Index	-1.15	-0.80	-0.83	-1.83	2.55	4.01	3.64	-8.61	6.98	13.56	6.31	4.35	
Difference	-0.02	-0.03	-0.12	0.01	0.02	0.11	0.05	0.03	-0.04	0.35	0.18	0.11	
IM U.S. TIPS (SA+CF) Median	-1.12	-0.75	-0.79	-1.61	2.53	4.10	3.52	-8.41	7.11	13.55	6.42	4.44	
Rank	65	63	77	68	41	47	35	62	62	25	42	45	
<b>Gresham Commodities (SA)</b>	<b>-14.68</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>-14.68</b>	<b>07/01/2015</b>
Bbrg Cmnty Ex-Energy Index (TR)	-10.08	-13.99	-14.61	-14.54	-6.37	1.56	-6.47	-16.76	2.85	-11.93	30.74	-10.08	
Difference	-4.60	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-4.60	
<b>Harvest MLP (SA)</b>	<b>-22.78</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>-22.78</b>	<b>07/01/2015</b>
S&P MLP Index (TR)	-24.23	-30.40	-38.77	-2.04	4.91	N/A	7.66	29.75	4.95	14.47	35.17	-24.23	
Difference	1.45	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.45	
<b>Van Eck NR Equities (SA)</b>	<b>-27.02</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>-27.02</b>	<b>07/01/2015</b>
S&P Gbl Natural Res Sect Index (TR)	-22.51	-24.44	-30.76	-11.08	-5.96	0.32	-9.66	1.55	7.15	-14.86	10.97	-22.51	
Difference	-4.51	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-4.51	

Asset Allocation by Manager



Performance shown is gross of fees. RVK began monitoring the assets of North Dakota Board of University and School Lands in Q3 2014. RVK endorses GIPS and calculates performance for composites and investment managers using different methodologies.

Comparative Performance													
	QTD	CYTD	1 Year	3 Years	5 Years	10 Years	2014	2013	2012	2011	2010	Since Incep.	Inception Date
<b>Real Estate</b>	<b>3.76</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>3.76</b>	<b>07/01/2015</b>
NCREIF ODCE Index (Gross) (AWA)	3.68	11.29	14.92	13.45	14.02	6.71	12.50	13.94	10.94	15.99	16.36	3.68	
Difference	0.08	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.08	
<b>Morgan Stanley Prime Property Fund (CF)</b>	<b>3.91</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>3.91</b>	<b>07/01/2015</b>
NCREIF ODCE Index (Gross) (AWA)	3.68	11.29	14.92	13.45	14.02	6.71	12.50	13.94	10.94	15.99	16.36	3.68	
Difference	0.23	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.23	
<b>UBS Trumbull Property Fund, L.P. (CF)</b>	<b>3.43</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>3.43</b>	<b>07/01/2015</b>
NCREIF ODCE Index (Gross) (AWA)	3.68	11.29	14.92	13.45	14.02	6.71	12.50	13.94	10.94	15.99	16.36	3.68	
Difference	-0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-0.25	
<b>Jamestown Premier Property Fund (CF)</b>	<b>2.92</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>2.92</b>	<b>07/01/2015</b>
NCREIF ODCE Index (Gross) (AWA)	3.68	11.29	14.92	13.45	14.02	6.71	12.50	13.94	10.94	15.99	16.36	3.68	
Difference	-0.76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-0.76	



Performance shown is gross of fees. RVK began monitoring the assets of North Dakota Board of University and School Lands in Q3 2014. RVK endorses GIPS and calculates performance for composites and investment managers using different methodologies.



North Dakota Board of University and School Lands  
Comparative Performance - Net

As of September 30, 2015

	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2014	2013	2012	Since Incep.	Inception Date
<b>Total Fund</b>	<b>-6.63</b>	<b>-5.93</b>	<b>-4.47</b>	<b>4.39</b>	<b>5.87</b>	<b>6.09</b>	<b>4.76</b>	<b>4.78</b>	<b>13.15</b>	<b>11.33</b>	<b>6.53</b>	<b>08/01/1995</b>
Long-Term Target Allocation Index	-5.03	-3.54	-2.45	5.45	6.69	N/A	N/A	5.50	13.12	11.94	N/A	
Difference	-1.60	-2.39	-2.02	-1.06	-0.82	N/A	N/A	-0.72	0.03	-0.61	N/A	
Interim Target Allocation Index	-6.06	-5.53	-4.81	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Difference	-0.57	-0.40	0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
<b>Broad US Equity</b>	<b>-7.40</b>	<b>-5.96</b>	<b>-0.64</b>	<b>11.13</b>	<b>11.34</b>	<b>N/A</b>	<b>N/A</b>	<b>12.29</b>	<b>28.14</b>	<b>14.54</b>	<b>14.22</b>	<b>07/01/2009</b>
Russell 3000 Index	-7.25	-5.45	-0.49	12.53	13.28	9.91	6.92	12.55	33.55	16.42	15.09	
Difference	-0.15	-0.51	-0.15	-1.40	-1.94	N/A	N/A	-0.26	-5.41	-1.88	-0.87	
<b>SSgA S&amp;P 500 Index (CF)</b>	<b>-6.43</b>	<b>-5.32</b>	<b>-0.64</b>	<b>12.37</b>	<b>13.31</b>	<b>9.74</b>	<b>N/A</b>	<b>13.67</b>	<b>32.36</b>	<b>15.96</b>	<b>7.40</b>	<b>04/01/2008</b>
S&P 500 Index (Cap Wtd)	-6.44	-5.29	-0.61	12.40	13.34	9.75	6.80	13.69	32.39	16.00	7.41	
Difference	0.01	-0.03	-0.03	-0.03	-0.03	-0.01	N/A	-0.02	-0.03	-0.04	-0.01	
<b>SSgA Sm Cap Compl Index (CF)</b>	<b>-10.29</b>	<b>-5.31</b>	<b>0.72</b>	<b>13.16</b>	<b>12.99</b>	<b>N/A</b>	<b>N/A</b>	<b>7.26</b>	<b>38.41</b>	<b>18.14</b>	<b>18.25</b>	<b>02/01/2009</b>
Russell Sm Cap Compl Index	-10.47	-6.22	-0.23	12.86	12.75	10.67	7.58	7.40	38.50	18.05	18.03	
Difference	0.18	0.91	0.95	0.30	0.24	N/A	N/A	-0.14	-0.09	0.09	0.22	
<b>NT Small Cap Core (CF)</b>	<b>-11.37</b>	<b>-9.48</b>	<b>-1.25</b>	<b>9.49</b>	<b>10.31</b>	<b>8.44</b>	<b>5.60</b>	<b>2.65</b>	<b>36.61</b>	<b>17.46</b>	<b>9.04</b>	<b>03/01/1996</b>
Russell 2000 Custom Index	-11.91	-7.73	1.25	12.10	12.52	10.19	7.32	8.25	36.80	17.88	9.31	
Difference	0.54	-1.75	-2.50	-2.61	-2.21	-1.75	-1.72	-5.60	-0.19	-0.42	-0.27	
<b>Broad International Equity</b>	<b>-11.55</b>	<b>-8.15</b>	<b>-11.66</b>	<b>5.65</b>	<b>2.90</b>	<b>N/A</b>	<b>N/A</b>	<b>-5.28</b>	<b>25.44</b>	<b>17.00</b>	<b>5.65</b>	<b>07/01/2009</b>
MSCI ACW Ex US Index (Net)	-12.17	-8.63	-12.16	2.34	1.82	3.20	3.03	-3.87	15.29	16.83	5.64	
Difference	0.62	0.48	0.50	3.31	1.08	N/A	N/A	-1.41	10.15	0.17	0.01	
<b>SSgA World Ex US Index (CF)</b>	<b>-10.58</b>	<b>-6.74</b>	<b>-10.20</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>-12.49</b>	<b>07/01/2014</b>
MSCI Wrld Ex US Index (Net)	-10.57	-6.69	-10.14	4.60	3.42	3.45	2.92	-4.32	21.02	16.41	-12.44	
Difference	-0.01	-0.05	-0.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-0.05	
<b>DFA Emg Mkts Core Eq;I (DFCEX)</b>	<b>-16.62</b>	<b>-14.69</b>	<b>-18.68</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>-17.43</b>	<b>07/01/2014</b>
MSCI Emg Mkts Index (Net)	-17.90	-15.48	-19.28	-5.27	-3.57	2.56	4.27	-2.19	-2.60	18.23	-18.11	
Difference	1.28	0.79	0.60	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.68	
<b>Harding Loevner:IEM;II (HLEEX)</b>	<b>-15.50</b>	<b>-13.97</b>	<b>-17.31</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>-17.37</b>	<b>07/01/2014</b>
MSCI Emg Mkts Index (Net)	-17.90	-15.48	-19.28	-5.27	-3.57	2.56	4.27	-2.19	-2.60	18.23	-18.11	
Difference	2.40	1.51	1.97	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.74	

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North Dakota Board of University and School Lands  
Comparative Performance - Net

As of September 30, 2015

	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2014	2013	2012	Since Incep.	Inception Date
<b>Fixed Income</b>	<b>0.02</b>	<b>0.18</b>	<b>1.30</b>	<b>1.78</b>	<b>3.62</b>	<b>5.35</b>	<b>4.95</b>	<b>4.72</b>	<b>-0.57</b>	<b>7.12</b>	<b>5.99</b>	<b>08/01/1995</b>
Barclays Gbl Agg Bond Index	0.85	-2.25	-3.26	-1.59	0.81	3.28	3.71	0.59	-2.60	4.32	4.78	
Difference	-0.83	2.43	4.56	3.37	2.81	2.07	1.24	4.13	2.03	2.80	1.21	
<b>Payden &amp; Rygel Long Term (SA)</b>	<b>0.94</b>	<b>0.98</b>	<b>2.29</b>	<b>1.95</b>	<b>3.78</b>	<b>5.92</b>	<b>5.15</b>	<b>5.80</b>	<b>-1.45</b>	<b>8.87</b>	<b>6.23</b>	<b>08/01/1995</b>
Barclays US Agg Bond Index	1.23	1.13	2.94	1.71	3.10	4.85	4.64	5.97	-2.02	4.21	5.65	
Difference	-0.29	-0.15	-0.65	0.24	0.68	1.07	0.51	-0.17	0.57	4.66	0.58	
<b>JP Morgan FI Intermediate Bond (SA)</b>	<b>1.11</b>	<b>2.00</b>	<b>2.96</b>	<b>1.71</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>3.86</b>	<b>-1.01</b>	<b>N/A</b>	<b>1.83</b>	<b>08/01/2012</b>
Barclays US Gov't/Credit: Int Trm Bond Index	0.95	1.77	2.68	1.45	2.42	4.23	4.17	3.13	-0.86	3.89	1.51	
Difference	0.16	0.23	0.28	0.26	N/A	N/A	N/A	0.73	-0.15	N/A	0.32	
<b>FIA International Fixed Income (SA)</b>	<b>1.61</b>	<b>-0.21</b>	<b>3.15</b>	<b>4.30</b>	<b>4.19</b>	<b>5.75</b>	<b>4.92</b>	<b>12.84</b>	<b>-1.04</b>	<b>7.53</b>	<b>5.06</b>	<b>05/01/2004</b>
Barclays Gbl Agg Ex USD Index (Hedged)	1.48	0.75	3.37	3.95	3.80	4.76	4.26	8.79	1.18	6.46	4.52	
Difference	0.13	-0.96	-0.22	0.35	0.39	0.99	0.66	4.05	-2.22	1.07	0.54	
<b>Brandywine Gbl Opp FI (CF)</b>	<b>-4.27</b>	<b>-7.76</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>-8.82</b>	<b>11/01/2014</b>
Citi Wrld Gov't Bond Index	1.71	-2.38	-3.83	-2.85	-0.19	2.43	3.37	-0.48	-4.00	1.65	-3.59	
Difference	-5.98	-5.38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-5.23	
<b>Lazard High Yield (SA)</b>	<b>-3.17</b>	<b>-0.40</b>	<b>0.59</b>	<b>3.84</b>	<b>5.68</b>	<b>7.93</b>	<b>6.34</b>	<b>3.69</b>	<b>5.83</b>	<b>11.61</b>	<b>6.32</b>	<b>01/01/2004</b>
BofA ML US Hi Yld BB-B Rated Index	-4.31	-1.74	-2.11	3.68	6.01	9.13	6.70	3.47	6.31	14.71	6.75	
Difference	1.14	1.34	2.70	0.16	-0.33	-1.20	-0.36	0.22	-0.48	-3.10	-0.43	
<b>Payden:Low Dur;Inv (PYSBX)</b>	<b>-0.31</b>	<b>0.65</b>	<b>0.60</b>	<b>0.83</b>	<b>2.31</b>	<b>3.58</b>	<b>3.83</b>	<b>0.70</b>	<b>0.48</b>	<b>4.51</b>	<b>3.89</b>	<b>04/01/2002</b>
Barclays US Trsy: 1-3 Yr Index	0.31	1.00	1.19	0.68	0.76	1.42	2.55	0.63	0.36	0.43	2.60	
Difference	-0.62	-0.35	-0.59	0.15	1.55	2.16	1.28	0.07	0.12	4.08	1.29	
<b>Payden &amp; Rygel Cash (SA)</b>	<b>-0.01</b>	<b>-0.03</b>	<b>-0.05</b>	<b>-0.02</b>	<b>-0.01</b>	<b>0.07</b>	<b>1.37</b>	<b>-0.04</b>	<b>-0.04</b>	<b>0.04</b>	<b>2.80</b>	<b>08/01/1995</b>
BofA ML 3 Mo US T-Bill Index	0.01	0.02	0.02	0.06	0.08	0.13	1.33	0.04	0.07	0.11	2.64	
Difference	-0.02	-0.05	-0.07	-0.08	-0.09	-0.06	0.04	-0.08	-0.11	-0.07	0.16	
<b>Bank of North Dakota (SA)</b>	<b>0.92</b>	<b>3.70</b>	<b>4.54</b>	<b>3.83</b>	<b>3.56</b>	<b>5.13</b>	<b>5.54</b>	<b>6.20</b>	<b>1.00</b>	<b>3.27</b>	<b>6.08</b>	<b>08/01/1995</b>
<b>FLP Bank Loan</b>	<b>1.59</b>	<b>4.59</b>	<b>6.08</b>	<b>5.80</b>	<b>5.96</b>	<b>6.21</b>	<b>6.63</b>	<b>5.85</b>	<b>5.52</b>	<b>5.89</b>	<b>7.43</b>	<b>08/01/1995</b>
<b>ECLP Bank Loan</b>	<b>1.26</b>	<b>3.81</b>	<b>5.11</b>	<b>5.12</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>5.03</b>	<b>5.16</b>	<b>5.58</b>	<b>5.41</b>	<b>11/01/2010</b>

Performance shown is net of fees. Manager inception dates shown represent the first full month following initial funding. Composite inception dates are based on availability of data for each asset class. The portfolio is in the process of transitioning to its new target allocations, resulting in significant variation between actual and target allocations. RVK began monitoring the assets of North Dakota Board of University and School Lands in Q3 2014. RVK endorses GIPS and calculates performance for composites and investment managers using different methodologies. For additional information, please see the Addendum and Glossary.

North Dakota Board of University and School Lands  
Comparative Performance - Net

As of September 30, 2015

	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2014	2013	2012	Since Incep.	Inception Date
<b>Absolute Return</b>	<b>-7.23</b>	<b>-7.22</b>	<b>-8.26</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<b>-8.29</b>	<b>07/01/2014</b>
Absolute Return Custom Index	-5.34	-3.53	-2.49	5.10	5.66	6.22	5.13	4.77	12.74	11.63	-3.28	
Difference	-1.89	-3.69	-5.77	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-5.01	
<b>GMO:Bchmk-Fr All;IV (GBMBX)</b>	<b>-6.64</b>	<b>-5.64</b>	<b>-6.40</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<b>-7.04</b>	<b>07/01/2014</b>
60% MSCI ACW Index (Net)/40% B Gbl Agg Bond Index	-5.38	-5.01	-5.17	3.56	4.55	5.24	4.53	2.78	12.05	11.45	-6.18	
Difference	-1.26	-0.63	-1.23	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-0.86	
Consumer Price Index + 5%	0.93	5.11	4.96	5.98	6.81	6.27	6.90	5.79	6.58	6.83	4.86	
Difference	-7.57	-10.75	-11.36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-11.90	
<b>PIMCO:All Ast Ath;Inst (PAUIX)</b>	<b>-10.03</b>	<b>-10.52</b>	<b>-14.50</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<b>-14.51</b>	<b>07/01/2014</b>
All Asset Custom Index	-2.87	-2.06	-1.59	2.93	4.51	5.46	4.91	3.73	6.10	8.92	-2.17	
Difference	-7.16	-8.46	-12.91	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-12.34	
Consumer Price Index + 5%	0.93	5.11	4.96	5.98	6.81	6.27	6.90	5.79	6.58	6.83	4.86	
Difference	-10.96	-15.63	-19.46	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-19.37	
<b>Westwood Income Opportunity (SA)</b>	<b>-4.98</b>	<b>-5.44</b>	<b>-3.63</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<b>-3.05</b>	<b>07/01/2014</b>
Westwood Custom Index	-0.62	-1.66	3.57	5.85	7.47	6.48	5.76	12.88	6.15	9.97	2.74	
Difference	-4.36	-3.78	-7.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-5.79	
Consumer Price Index + 5%	0.93	5.11	4.96	5.98	6.81	6.27	6.90	5.79	6.58	6.83	4.86	
Difference	-5.91	-10.55	-8.59	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-7.91	
<b>Diversified Inflation Strategies (DIS)</b>	<b>-17.06</b>	<b>-19.64</b>	<b>-12.44</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<b>-6.86</b>	<b>04/01/2014</b>
DIS Custom Index	-15.17	-16.20	-12.85	-2.46	2.47	3.65	3.68	9.69	-2.19	17.59	-7.30	
Difference	-1.89	-3.44	0.41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.44	
<b>NT Common TIPS Index (CF)</b>	<b>-1.18</b>	<b>-0.87</b>	<b>-1.00</b>	<b>-1.86</b>	<b>2.53</b>	<b>4.04</b>	<b>4.07</b>	<b>3.66</b>	<b>-8.61</b>	<b>6.90</b>	<b>4.41</b>	<b>06/01/2004</b>
Barclays US Trsy: US TIPS Index	-1.15	-0.80	-0.83	-1.83	2.55	3.87	4.01	3.64	-8.61	6.98	4.35	
Difference	-0.03	-0.07	-0.17	-0.03	-0.02	0.17	0.06	0.02	0.00	-0.08	0.06	
<b>Gresham Commodities (SA)</b>	<b>-14.81</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<b>-14.81</b>	<b>07/01/2015</b>
Bbrg Cmdty Ex-Energy Index (TR)	-10.08	-13.99	-14.61	-14.54	-6.37	-2.59	1.56	-6.47	-16.76	2.85	-10.08	
Difference	-4.73	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-4.73	
<b>Harvest MLP (SA)</b>	<b>-22.94</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<b>-22.94</b>	<b>07/01/2015</b>
S&P MLP Index (TR)	-24.23	N/A	N/A	N/A	N/A	N/A	N/A	7.66	29.75	4.95	-24.23	
Difference	1.29	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.29	

Performance shown is net of fees. Manager inception dates shown represent the first full month following initial funding. Composite inception dates are based on availability of data for each asset class. The portfolio is in the process of transitioning to its new target allocations, resulting in significant variation between actual and target allocations. RVK began monitoring the assets of North Dakota Board of University and School Lands in Q3 2014. RVK endorses GIPS and calculates performance for composites and investment managers using different methodologies. For additional information, please see the Addendum and Glossary.

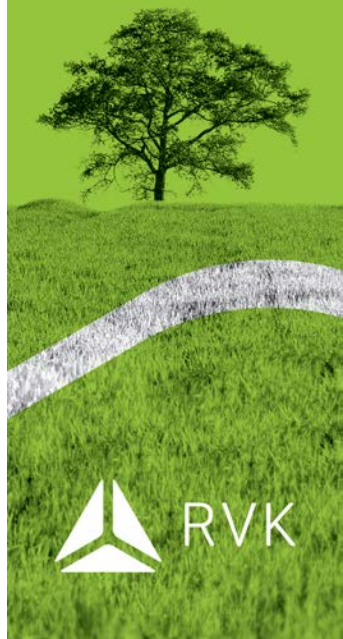
North Dakota Board of University and School Lands  
Comparative Performance - Net

As of September 30, 2015

	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2014	2013	2012	Since Incep.	Inception Date
<b>Van Eck NR Equities (SA)</b>	<b>-27.16</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>-27.16</b>	<b>07/01/2015</b>
S&P Gbl Natural Res Sect Index (TR)	-22.51	-24.44	-30.76	-11.08	-5.96	-3.16	0.32	-9.66	1.55	7.15	-22.51	
Difference	-4.65	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-4.65	
<b>Real Estate</b>	<b>3.45</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>3.45</b>	<b>07/01/2015</b>
NCREIF ODCE Index (Net) (AWA)	3.43	10.52	13.86	12.39	12.94	3.27	5.72	11.46	12.90	9.79	3.43	
Difference	0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.02	
<b>Morgan Stanley Prime Property Fund (CF)</b>	<b>3.58</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>3.58</b>	<b>07/01/2015</b>
NCREIF ODCE Index (Net) (AWA)	3.43	10.52	13.86	12.39	12.94	3.27	5.72	11.46	12.90	9.79	3.43	
Difference	0.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.15	
<b>UBS Trumbull Property Fund, L.P. (CF)</b>	<b>3.14</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>3.14</b>	<b>07/01/2015</b>
NCREIF ODCE Index (Net) (AWA)	3.43	10.52	13.86	12.39	12.94	3.27	5.72	11.46	12.90	9.79	3.43	
Difference	-0.29	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-0.29	
<b>Jamestown Premier Property Fund (CF)</b>	<b>2.74</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>2.74</b>	<b>07/01/2015</b>
NCREIF ODCE Index (Net) (AWA)	3.43	10.52	13.86	12.39	12.94	3.27	5.72	11.46	12.90	9.79	3.43	
Difference	-0.69	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-0.69	

Performance shown is net of fees. Manager inception dates shown represent the first full month following initial funding. Composite inception dates are based on availability of data for each asset class. The portfolio is in the process of transitioning to its new target allocations, resulting in significant variation between actual and target allocations. RVK began monitoring the assets of North Dakota Board of University and School Lands in Q3 2014. RVK endorses GIPS and calculates performance for composites and investment managers using different methodologies. For additional information, please see the Addendum and Glossary.

# Addendum & Glossary



**Fee Schedules**

• SSgA S&P 500 Index (CF):	0.012% on total market value
• SSgA Sm/Mid Completeness Index (CF):	0.04% on the first \$50 million, 0.03% on the next \$50 million, 0.02% thereafter
• NTGA Small Cap Core (CF):	0.70% on total market value
• SSgA World Ex US Index (CF):	0.025% on total market value
• DFA Emg Mkts Core Eq;I (DFCEX):	0.61% on total market value
• Harding Loevner:IEM;II (HLEEX):	1.14% on total market value
• Payden & Rygel Long Term (SA):	0.20% on total market value
• JP Morgan FI Intermediate Bond (SA):	0.20% on the first \$75 million, 0.18% thereafter
• FIA International Fixed Income (SA):	0.35% on the first \$30 million, 0.25% on the next \$20 million, 0.20% over \$50 million
• Brandywine Gbl Opp FI (CF):	0.45% on the first \$50 million, 0.40% on the next \$50 million, 0.35% thereafter
• Lazard High Yield (SA):	0.30% on total market value
• Payden:Low Dur;Inv (PYSBX):	0.48% on total market value
• Payden & Rygel Cash (SA):	0.10% on total market value
• Bank of North Dakota (SA):	0.04% on total market value
• Westwood Income Opportunity (SA):	0.80% on the first \$25 million, 0.65% on the next \$25 million, 0.50% thereafter
• GMO:Bchmk-Fr All;IV (GBMBX):	0.54% on total market value
• PIMCO:All Ast Ath;Inst (PAUIX):	0.94% on total market value
• NT Common TIPS Index (CF):	0.06% on the first \$50 million, 0.03% thereafter
• Gresham Commodities (SA):	0.67% on the first \$75 million, 0.50% on the next \$75 million, 0.40% thereafter
• Harvest MLP (SA):	0.75% on the first \$100 million, and a 0.05% discount on each 50 million thereafter until \$300 million, where it's 0.50%
• Van Eck NR Equities (SA):	0.75% on the first \$50 million, 0.50% on the next \$200 million, 0.475% thereafter
• Morgan Stanley Prime Property Fund:	0.84% on total market value; Incentive fee: 5.0% * NAV * comparable property NOI growth (total capped at 0.35%)
• UBS Trumbull Property Fund, L.P.:	0.955% on the first \$10 million, 0.825% on the next \$15 million, 0.805% on the next \$25 million, 0.79% on the next \$50 million, 0.67% on the next \$150 million, and 0.6% thereafter, and a 0.15% incentive fee
• Jamestown Premier Property Fund:	0.70% on Total Market Value, plus 20% of returns greater than 7% and 25% of returns greater than 10%

**Performance Related Comments**

- Manager inception dates shown represent the first full month following initial funding.
- RVK began monitoring the assets of North Dakota Board of University and School Lands in Q3 2014. Prior historical data was provided by North Dakota Board of University and School Lands.
- RVK endorses GIPS and calculates performance for composites and investment managers using differing methodologies. For additional information, please see the Glossary.
- Indices show N/A for since inception returns when the fund contains more history than the corresponding benchmark.
- Historical gross performance for composites was calculated by aggregating gross performance for each of the composites' underlying managers. Managers' gross performance was provided by North Dakota Board of University and School Lands. As of July 2014, composite and manager performance is provided and calculated by RVK.
- NT Small Cap Core (CF) changed mandate from small and mid cap to strictly small cap in June 2014.
- Payden:Low Dur;Inv (PYSBX) performance prior to August 2012 consists of blended Payden:Low Dur;Inv (PYSBX) and Payden:GNMA;Inv (PYGNX).

## Addendum

Index Comments

- The Long-Term Target Allocation Index is a static custom index that is calculated monthly and consists of:
  - From July 2014 through present: 17% Russell 3000 Index, 15% MSCI ACW Ex US Index (Net), 23% Barclays Gbl Agg Bond Index, 15% NCREIF ODCE Index (Net) (AWA) (Monthly), 20% Absolute Return Custom Index, and 10% DIS Custom Index.
  - From January 2013 through June 2014: 18.7% Russell 1000 Index, 12.4% Russell 2500 Index, 7.5% FTSE EPRA/NAREIT US Index (USD) (Net), 12.4% MSCI EAFE Index (USD) (Net), 33.3% Barclays US Agg Bond Index, 0.70% Credit Suisse Leveraged Loan Index, 10% Barclays US Corporate: High Yield Index, and 5% Barclays Gbl Agg Ex USD Index (Hedged).
  - From July 2009 through December 2013: 15% Russell 1000 Index, 10% Russell 2500 Index, 6% FTSE EPRA/NAREIT US Index (Net), 10% MSCI EAFE Index (USD) (Net), 32.3% Barclays US Aggregate Bond Index, 1.70% Credit Suisse Leveraged Loan Index, 10% Barclays US Corporate: High Yield Index, 5% Barclays Gbl Agg Ex USD Index (Hedged), and 10% BofA Merrill Lynch Convertible Bonds Index (All Qualities).
- The Interim Target Allocation Index is a custom index that is calculated monthly and consists of:
  - From July 2015 through present: 19.5% Russell 3000 Index, 17.4% MSCI ACW Ex US Index (Net), 26.2% Barclays Gbl Agg Bond Index, 14.1% NCREIF ODCE Index (Net) (AWA) (Monthly), 22% Absolute Return Custom Index, and 10.8% DIS Custom Index.
  - From July 2014 through June 2015: The Index was calculated monthly using beginning of month asset class weights applied to each corresponding primary benchmark return.
- The Absolute Return Custom Index consists of 60% MSCI ACW Investable Mkt Index (Net) and 40% Barclays US Agg Bond Index.
- The DIS Custom Index consists of 50% Barclays US Trsy: US TIPS Index and 50% FTSE EPRA/NAREIT Developed Index (USD) (Gross) through June 2015. It consists of 20% Barclays US Trsy: US TIPS Index, 30% Bbrg Cmnty Ex-Energy Index (TR), 30% S&P MLP Index (TR), and 20% S&P Gbl Natural Res Index (TR) thereafter.
- The Russell 2000 Custom Index consists of 100% Russell 2500 Index until June 2014 and 100% Russell 2000 Index thereafter.
- The Westwood Custom Index consists of 25% S&P 500 Index (Cap Weighted), 25% FTSE NAREIT All Eq REITs TR Index, 25% Citi 3 Mo T-Bill Index, and 25% Citi 10 Yr Trsy Index.
- The All Asset Custom Index is an equal-weighted hybrid created independently by RVK specifically for PIMCO's All Asset strategies, and it consists of the following benchmarks:
  1. Short Term Strategies: BofA ML 1 Year T-Bill Index
  2. US Core and Long Maturity Bond Strategies: Barclays US Agg Bond Index
  3. EM and Global Bond Strategies: PIMCO GLADI Index\*
  4. Credit Strategies: BofA ML US Hi Yld Master II Index
  5. Inflation Related Strategies: Barclays US Trsy: US TIPS Index
  6. US Equity Strategies: Russell 3000 Index
  7. Global Equity Strategies: MSCI ACW Index (USD) (Net)
  8. Alternative Strategies: BofA ML 3 Mo US T-Bill Index + 3%

\* Performance for the PIMCO Gbl Advantage Bond Index (London Close) prior to January 2004 consists of the JPM EMBI Gbl Dvf'd TR Index (USD).

## Glossary

**Alpha** - A measure of the difference between a portfolio's actual returns and its expected performance, given its level of risk as measured by beta. It is a measure of the portfolio's historical performance not explained by movements of the market or a portfolio's non-systematic return.

**Alpha Ratio** - A measure of a portfolio's non-systematic return per unit of downside risk. It is measured by dividing the alpha of a portfolio by the downside risk. The non-systematic return is a measure of a portfolio's historical performance not explained by movements of the market.

**Average Quality** - Bond quality ratings are reported using the investment managers' and the index providers' preferred rating agency. **Average Quality for managers unable to provide this statistic has been estimated using a credit quality distribution provided by the manager.** There are two primary rating agencies in the US. *Moody's* assigns ratings on a system that employs up to four symbols (consisting of letters and numbers) such as, Aaa, Aa2, etc., with Aaa being the highest or safest rating. *Standard & Poor's (S&P)* employs a system that uses + and - along with letters such as AAA, AA+, etc. The two rating agencies' systems are summarized below:

<u>S&amp;P</u>	<u>Moody's</u>	<u>Explanation</u>	<u>S&amp;P</u>	<u>Moody's</u>	<u>Explanation</u>
<b>Higher Credit Quality – Investment Grade</b>			<b>Lower Credit Quality – Below Investment Grade</b>		
AAA	Aaa	Prime/Highest credit quality	BB+	Ba1	Speculative/Low credit quality
AA+	Aa1	High credit quality	BB	Ba2	
AA	Aa2		BB-	Ba3	
AA-	Aa3		B+	B1	Highly speculative
A+	A1	Upper-medium credit quality	B	B2	
A	A2		B-	B3	
A-	A3		CCC+	Caa1	Substantial credit/default risk
BBB+	Baa1	Lower-medium credit quality	CCC	Caa2	Extremely speculative
BBB	Baa2		CCC-	Caa3	
BBB-	Baa3		CC	Ca	Vulnerable to default
			C	Ca	
			D	C	In default

**Beta** - A measure of the sensitivity of a portfolio to the movements in the market. It is a measure of a portfolio's non-diversifiable or systematic risk.

**Buy and Hold Attribution** - At the beginning of the time period under analysis, the manager and benchmark portfolios are broken down into segments (i.e., styles, sectors, countries, and regions) based on the desired type of attribution. The formula assumes zero turn-over to the manager and benchmark portfolios throughout the period and calculates the segment returns ("buy and hold returns") to arrive at performance attribution. Due to portfolio turnover, buy and hold attribution may not accurately represent quarterly performance relative to the benchmark. Country, region, sector, and style allocations are as of the date one quarter prior to the reporting date, and the returns shown are for those segments throughout the quarter reported. Due to disclosure guidelines set by each investment manager, equity characteristics shown are as of the most recent date available. The following is the methodology for segment classification:

**Sector** - Attribution is calculated using the Global Industry Classification Standard (GICS) which is a detailed and comprehensive structure for sector and industry analysis. Stocks are classified by their primary sector, as defined by S&P Capital IQ data.

**Country/Region** - Attribution is calculated using the Morgan Stanley Capital International (MSCI) region standards. Stocks are classified by their domicile country/region, as defined by S&P Capital IQ data.

**Style** - Stocks are classified into the following style boxes: large/mid/small vs. growth/neutral/value. Stocks are classified along large/mid/small categories at the time of the Russell index rebalancing, using the index market cap boundaries as cutoff points. Stocks are classified along growth/neutral/value categories at the time of the Russell index rebalancing, using the price/book ratio as supplied by S&P Capital IQ. Stocks in the Russell 3000 Index portfolio are sorted by price/book ratio; names with the highest price/book ratio that make up 1/3 of the total market capitalization are assigned to the growth category, names that make up the subsequent 1/3 of the total market capitalization are assigned to the neutral category, while the balance of the names are assigned to the value category.

Portfolio Characteristics and Buy and Hold Attribution reports utilize product-specific data for all mutual funds and commingled funds.



## Glossary

### Capital Markets Review -

**Breakeven Inflation** - Measures the expected inflation rate at each stated maturity by taking the difference between the real yield of the inflation-linked maturity curve and the yield of the closest nominal Treasury maturity.

**Consumer Confidence** - Measures domestic consumer confidence as defined by the degree of optimism on the state of the economy that consumers express through saving and spending.

**Consumer Price Index (CPI)** - Measures the change in the price level of consumer goods and services.

**Option-Adjusted Spread** - Measures the flat spread of an index or bond to the Treasury yield curve after removing the effect of any embedded options.

**Purchasing Managers Index (PMI)** - Measures economic activity by surveying purchasing managers on a monthly basis as to whether business conditions have improved, worsened, or stayed the same.

**US Dollar Total Weighted Index** - Measures the value of the US Dollar relative to a basket of other world currencies. It is calculated as the weighted geometric mean of the dollar's value versus the EUR, GBP, CAD, SEK, CHF, and JPY.

**VIX** - Measures the implied volatility of S&P 500 Index options by looking at the market's expectation of the S&P 500 Index volatility over the next 30 day period. Commonly referred to as the "fear index" or the "fear gauge."

**Consistency** - The percentage of quarters that a product achieved a rate of return higher than that of its benchmark. The higher the consistency figure, the more value a manager has contributed to the product's performance.

**Convexity** - A measure of the shape of the curve that describes the relationship between bond prices and bond yields.

**Correlation** - A statistical measure of the relationship between asset class returns. A value of 1.00 is a perfect correlation; that is, the asset classes always move in the same direction. A value of -1.00 indicates a perfect negative correlation, in which the asset classes always move in opposite directions of each other. A value of 0 indicates there is no relationship between the direction of returns of the two asset classes. Correlation calculations only consider the direction of changes relative to two variables and not the magnitude of those changes.

**Coupon Rate** - The percentage rate of interest paid on a bond or fixed income security; it is typically paid twice per year.

**Current Yield** - The annual income of a security divided by the security's current price.

**Down Market Capture** - Down market by definition is negative benchmark return and down market capture represents the ratio in % terms of the average portfolios return over the benchmark during the down market period. The lower the value of the down market capture the better the product's performance.

**Downside Risk** - A measure similar to standard deviation, but focuses only on the negative movements of the return series. It is calculated by taking the standard deviation of the negative quarterly set of returns. The higher the factor, the riskier the product.

**Earnings Per Share** - It is backward looking, calculated using the one year current EPS divided by the one year EPS five years ago.

**Effective Duration** - The weighted average duration of all the bonds in a given portfolio, weighted by their dollar values.

**Excess Return vs. Market** - Average of the monthly arithmetic difference between the manager's return and the benchmark return over a specified time period, shown on an annualized basis.

**Excess Return vs. Risk Free** - Average of the monthly arithmetic difference between the manager's return and the risk-free return (i.e., BofA ML 3 Mo US T-Bill Index unless specified otherwise) over a specified time period, shown on an annualized basis.

**Excess Risk** - A measure of the standard deviation of a portfolio's performance relative to the risk free return.

**Expense Ratios** - Morningstar is the source for mutual fund expense ratios.

**Gain/Loss** - The net increase or decrease in the market value of a portfolio excluding its Net Cash Flow for a given period.

**Indices** - All indices and related information are considered intellectual property and are licensed by each index provider. The indices may not be copied, used or distributed without the index provider's prior written approval. Index providers make no warranties and bear no liability with respect to the indices, any related data, their quality, accuracy, suitability and/or completeness.

**Information Ratio** - Measured by dividing the active rate of return by the tracking error. The higher the information ratio, the more value-added contribution by the manager.

## Glossary

**Liability Driven Investing (LDI)** - A method to optimally structure asset investments relative to liabilities. The change in liabilities is estimated by the Ryan Labs Generic PPA Index of appropriate duration for that Plan. This benchmark is based on generic data and is therefore an approximation. RVK is not an actuarial firm, and does not have actuarial expertise.

**Estimated Funded Status** - The estimated ratio of a Plan's assets relative to its future liabilities. This is calculated by dividing the Plan's asset market value by the estimated present value of its liabilities. The higher the estimated funded status, the better the Plan's ability to cover its projected benefit obligations. An estimated funded status of 100% indicates a Plan that is fully funded.

**Estimated PV of Liabilities** - An estimate of a Plan's future liabilities in present value terms. The beginning of the period liability is provided by the Plan's actuary. The period-end present value liability estimate provided in this report is derived by applying the estimated percentage change generated using the Ryan Labs Generic PPA Index with duration similar to that reported on the most recent actuarial valuation report.

**Duration of Liabilities** - The sensitivity of the value of a Plan's liabilities to changes in interest rates, as calculated by the Plan's actuary.

**Duration of Assets** - The dollar-weighted average duration of all the individual Plan assets.

**Estimated Plan Hedge Ratio** - The estimate of how well a Plan's investment portfolio is hedged against changes in interest rates - a primary driver of funded status movements. This is calculated by dividing the dollar-weighted values of both the Plan asset duration by the liability duration and multiplying by the estimated funded status. An estimated plan hedge ratio of zero indicates that the Plan's liabilities have not been hedged, whereas a value of one indicates fully hedged.

**Modified Duration** - The approximate percentage change in a bond's price for a 100 basis point change in yield.

**Mutual Fund Performance** - Whenever possible, manager performance is extended for any share class that does not have 10 years of history. Using Morningstar's methodology, a single ticker within the same fund family (often the oldest share class) is chosen to append historical performance.

**Net Cash Flow** - The sum, in dollars, of a portfolio's contributions and withdrawals. This includes all management fees and expenses only when performance shown is gross of fees.

### Peer Groups -

**Plan Sponsor Peer Groups** - RVK utilizes the Mellon Analytical Solutions Trust Universe along with the Investment Metrics Plan Sponsor Universe. The combined Mellon Analytical Solutions Trust Universe and Investment Metrics Plan Sponsor Universe is used for comparison of total fund composite results and utilizes actual client returns compiled from consultant and custodial data. The Plan Sponsor Peer Group database includes performance and other quantitative data for over 2,100 plans which include corporate, endowment, foundation, public, and Taft Hartley plans. Plan Sponsor Peer Groups are gross of fees.

**Institutional Peer Groups (Separate Account and Commingled Fund)** - RVK utilizes the Investment Metrics Separate Account and Commingled Fund Manager Peer Groups for peer comparison and rankings. The Separate Account and Commingled Fund Peer Group database includes performance and other quantitative data for over 1,000 investment management firms, 6,400 investment products, across 100 standard peer groups. Separate Account and Commingled Fund Peer Groups are gross of fees.

**Mutual Fund (MF) Peer Groups** - RVK utilizes the Lipper Mutual Fund Manager Peer Groups for peer comparison and rankings. The Lipper Manager Peer Group database includes performance and other quantitative data for over 700 investment management firms and 24,500 investment products, across more than 140 standard peer groups. Mutual Fund Peer Groups are net of fees.

**Percentile Rankings** - Percentile rank compares an individual fund's performance with those of other funds within a defined peer group of managers possessing a similar investment style. Percentile rank identifies the percentage of a fund's peer group that has a higher return (or other comparative measurement) than the fund being ranked. Conversely, 100 minus the individual fund's ranking will identify the percentage of funds within the peer group that have a lower return than the fund being ranked.

1 - Highest Statistical Value

100 - Lowest Statistical Value

*Example: American Funds AMCP;R-4 (RAFEX) is ranked in the 4<sup>th</sup> percentile within the IM US Equity Large-Cap Growth Funds (MF) Peer Group for the Sharpe Ratio. Within the IM US Equity Large-Cap Growth Funds peer group, 4% of the other funds performed better than American Funds AMCP;R-4 (RAFEX), while 96% of the funds performed worse.*

**Performance Methodology** - RVK endorses the Global Investment Performance Standards (GIPS) and calculates performance for investment managers and composites using different methodologies. Investment manager performance is calculated by revaluing the portfolio on the date of all large external cash flows while composite performance is calculated using the Modified Dietz calculation methodology. According to the CFA Institute, "Only investment management firms that actually manage assets can claim compliance with the Standards. Plan Sponsors and consultants cannot make a claim of compliance unless they actually manage assets for which they are making a claim of compliance. They can claim to endorse the Standards and/or require that their investment managers comply with the Standards."

**Investment Managers** - Performance is calculated for interim periods between all large external cash flows for a given month and geometrically linked to calculate period returns. An external cash flow is defined as cash, securities, or assets that enter or exit a portfolio. RVK defines a "large cash flow" as a net aggregate cash flow of  $\geq 10\%$  of the beginning-period portfolio market value or any cash flow that causes RVK calculated performance to deviate from manager/custodian reported performance in excess of 5 basis points for a given month.

## Glossary

**Composites** - The Modified Dietz methodology is utilized to calculate asset class, sub-asset class, and total fund composite performance. The Modified Dietz method calculates a time-weighted total rate of return that considers the timing of external cash flows; however, it does not utilize interim period performance to mitigate the impact of significant cash in- and outflows to the composite.

RVK calculates performance beginning with the first full month following inception. Since inception performance may vary from manager reported performance due to RVK using the first full month of returns as the inception date. Performance for both managers and composites is annualized for periods greater than one year.

**Portfolio Characteristics** - Due to disclosure guidelines set by each investment manager, portfolio characteristics shown are as of the most recent date available.

**Private Equity Quartile Ranks** - Private Equity quartile ranks are generated using vintage year peer group data provided by Thomson Reuters, and are based on each fund's annualized, since inception internal rate of return (IRR). Three Private Equity peer groups are available via Thomson Reuters: Buyout, Venture, and All Private Equity. Ranks are available quarterly, at a one-quarter lag.

**Return** - Compounded rate of return for the period.

**% Return** - The time-weighted rate of return of a portfolio for a given period.

**R-Squared** - The percentage of a portfolio's performance explained by the behavior of the appropriate benchmark. High R-Squared means a higher correlation of the portfolio's performance to the appropriate benchmark.

**Risk Free Benchmark** - BofA ML 3 Mo US T-Bill Index unless specified otherwise.

**RVK Liquidity Rating** - A qualitative method for determining the relative amount of liquidity in a portfolio. The characteristics considered when determining relative liquidity include trading volume, gates for redemption, leverage, nature of transactions, and pricing mechanisms. The RVK Liquidity Rating is calculated using beginning of month investment weights applied to each corresponding asset class liquidity rating.

<u>Asset Class</u>	<u>RVK Liquidity Rating</u>	<u>Asset Class</u>	<u>RVK Liquidity Rating</u>
<u>Liquid Investments</u>		<u>Less Liquid Investments</u>	
T-Bills and Treasurys	100	Fixed Income Plus Sector	50
Cash Equivalents	98	Bank Loans	50
TIPS	95	Stable Value (Plan Sponsor Directed)	50
US Large Cap Equity	95	Absolute Return Strategies	35
Diversified Real Return	93		
Stable Value (Participant Directed)	91		
Non-US Large Cap Equity	90	<u>Not Liquid Investments</u>	
Global Tactical Asset Allocation	88	Core Real Estate	25
US Small Cap Equity	85	Core Plus Real Estate	15
REITS	85	Plus Only Real Estate	5
Non-US Small Cap Equity	85	Private Equity Funds of Funds	5
Emerging Markets Equity	85		
Core Fixed Income	85		
Core Plus Fixed Income	80		

**Sharpe Ratio** - Represents the excess rate of return over the risk-free return (i.e., BofA ML 3 Mo US T-Bill Index unless specified otherwise), divided by the standard deviation of the excess return. The result is the absolute rate of return per unit of risk. The higher the value, the better the product's historical risk-adjusted performance.

**Simple Alpha** - The difference between the manager's return and the benchmark's return.

**Spread Duration** - A measure of the price sensitivity of a bond to a 100 basis-point movement of the bond's spread relative to Treasurys.

## Glossary

**Standard Deviation** - A statistical measure of the range of a portfolio's performance. The variability of a return around its average return over a specified time period.

**Time Period Abbreviations** - **QTD** - Quarter-to-Date. **CYTD** - Calendar Year-to-Date. **FYTD** - Fiscal Year-to-Date. **YOY** - Year Over Year.

**Thematic Classification** - Represents dedicated manager allocations; as such, thematic allocations are approximations. RVK categorizes the following asset classes as Alpha, Capital Appreciation, Capital Preservation, and Inflation:

<u>Alpha</u>	<u>Capital Appreciation</u>	<u>Capital Preservation</u>	<u>Inflation</u>
Absolute Return Strategies	Public Equity	Core Fixed Income	TIPS
Currency Overlay	Private Equity	CMBS Fixed Income	Bank Loans
	Preferred Securities	Asset Backed Fixed Income	Core Real Estate
	High Yield	Domestic Core Plus Fixed Income	Real Return
	Convertible Fixed Income	Mortgage Backed Fixed Income	Inflation Hedges
	TALF Funds	International Developed Fixed Income	REITS
	Distressed Debt	Cash Equivalents	Commodities
	Emerging Market Fixed Income	Stable Value	
	Value Added Real Estate		
	Opportunistic Real Estate		

**Total Fund Attribution** - A method for identifying the sources of a total fund's over- or underperformance relative to its benchmark. The calculation identifies the contributions of positive or negative total fund excess return caused by allocation differences relative to the total fund's custom benchmark, and performance differences of the investment managers relative to the benchmark components that represent them.

### **Total Fund Performance** -

**Total Fund** - The percentage return of the total fund for the specified time period.

**Total Fund Benchmark** - The percentage return of the total fund benchmark for the specified time period; calculated using the target asset allocation and the corresponding benchmark returns.

**Total Value Added** - The percentage of over- or underperformance of the total fund as compared to the total fund benchmark.

### **Total Value Added** -

**Asset Allocation** - Shows how the variance of the total fund's actual allocation from its target allocation added to or subtracted from fund performance.

**Manager Value Added** - The portion of the total value added attributable to the outperformance or underperformance of the fund's investment managers, relative to the individual benchmarks that represent them in the total fund benchmark.

**Market Timing/Other** - The contribution of other residual factors, including estimation error and transaction timing.

**Total Fund Beta** - Total Fund Beta is calculated using the S&P 500 as the benchmark. It represents a measure of the sensitivity of the total fund to movements in the S&P 500 and is a measure of the Total Fund's non-diversifiable or systematic risk.

**Tracking Error** - A measure of the standard deviation of a portfolio's performance relative to the performance of an appropriate market benchmark.

**Treynor Ratio** - Similar to Sharpe ratio, but focuses on beta rather than excess risk (standard deviation). Treynor ratio represents the excess rate of return over the risk-free rate (i.e., BofA ML 3 Mo US T-Bill Index unless specified otherwise) divided by the beta. The result is the absolute rate of return per unit of risk. The higher the value, the better historical risk-adjusted performance.

**Unit Value** - The dollar value of a portfolio, assuming an initial nominal investment of \$100, growing at the compounded rate of %Return for a given period.

**Up Market Capture** - Up market by definition is positive benchmark return and up market capture represents the ratio in % terms of the average portfolios return over the benchmark during the up market period. The higher the value of the up market capture the better the product's performance.

**Yield to Maturity** - The rate of return achieved on a bond or other fixed income security assuming the security is bought and held to maturity and that the coupon interest paid over the life of the bond will be reinvested at the same rate of return.

**Yield to Worst** - The bond yield calculated by using the worst possible yield taking into consideration all call, put, and optional sink dates.

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