



Summit Strategies Group

8182 Maryland Avenue, 6th Floor

St. Louis, Missouri 63105

314.727.7211

Active vs. Passive Discussion

Manager Review

Fee Review

**City of Jacksonville
Police & Fire Pension Fund**

March 18, 2016

ACTIVE VS. PASSIVE DISCUSSION

BIG PICTURE: THE ACTIVE VS. PASSIVE DECISION

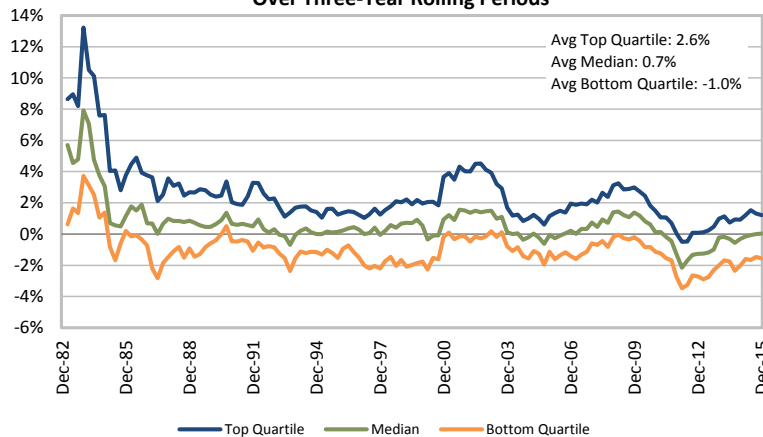
- A rational investor will pay an active management fee only if the perceived alpha potential is well in excess of the management fee.
 - Typical target is gross alpha of 2x-4x the fee.
 - Otherwise, the investor:
 - Experiences benchmark (or less) returns, and
 - Experiences high volatility / tracking error.
 - Meanwhile, the manager:
 - Gets wealthy.
- Some asset classes require an investor to pursue active management.
 - Private Assets:
 - Private Equity, Private Debt, Private Real Assets (Real Estate, Infrastructure, Natural Resources)
 - Hedge Funds (“Passive” ETFs are available, but the concern is not selecting “alpha” managers and being left with “expensive beta”)
 - Risk Parity
- All other (more traditional) asset classes can be garnered passively or actively.
 - Includes asset classes such as Public Equities, Public Fixed Income, Cash.
 - Default position should be passive management, and an investor must be compelled to move away from this position.
 - Reliant upon the skill of the active manager and the staff/consultant skill to select high quality managers.
 - Must be sensitive to not over-diversify, ultimately producing an expensive index with active management fees.
 - Caveat: All asset classes are subject to issues regarding the appropriateness of a benchmark comparison.
 - Active and passive management both go through periods of under/outperformance.
 - Some asset classes are better suited for active management.

INDUSTRY EXCESS RETURN CHARACTERISTICS: DOMESTIC EQUITY (AS OF DECEMBER 31, 2015)

Domestic Equity

Large Capitalization

Level of Over/Under Performance vs. Russell 1000
Over Three-Year Rolling Periods



	Median	Top Quartile
Average Alpha	70 bps	260 bps
Average Fee	52 bps	
Multiple of Fee	1.3x	5.0x
Index Fee	2 bps	

- Historically, a very challenging asset class to garner excess return with active management, net of fees. Index management is very inexpensive.

Small Capitalization

Level of Over/Under Performance vs. Russell 2000
Over Three-Year Rolling Periods



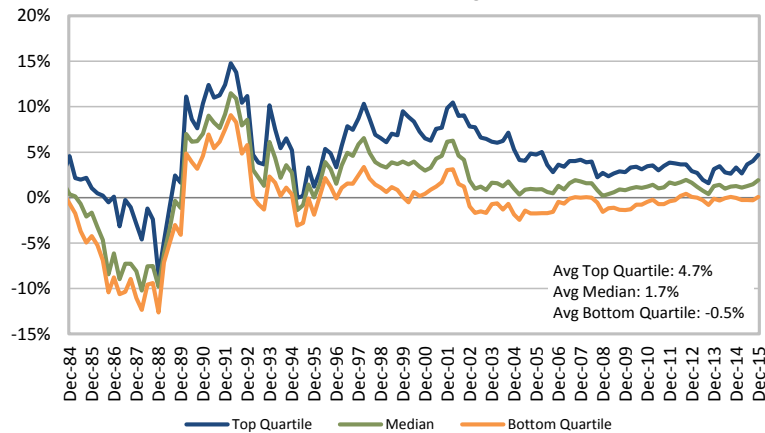
	Median	Top Quartile
Average Alpha	230 bps	510 bps
Average Fee	88 bps	
Multiple of Fee	2.6x	5.8x
Index Fee	7 bps	

- While an expensive asset class, greater excess returns can be realized with active management. Index management is fairly inexpensive.

INDUSTRY EXCESS RETURN CHARACTERISTICS: INTERNATIONAL EQUITY (AS OF DECEMBER 31, 2015)

International Equity

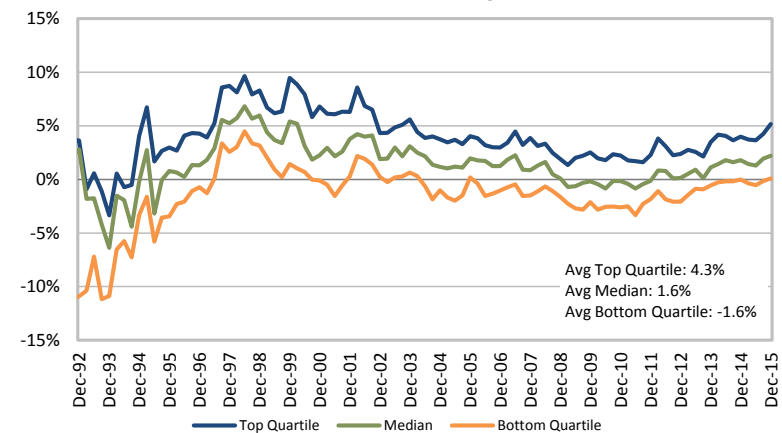
Developed International

Level of Over/Under Performance vs. MSCI EAFE
Over Three-Year Rolling Periods

	Median	Top Quartile
Average Alpha	170 bps	470 bps
Average Fee	68 bps	
Multiple of Fee	2.5x	6.9x
Index Fee	7 bps	

- The most substantial upside relative to the size of the active management fee.

Emerging Markets

Level of Over/Under Performance vs. MSCI Emerging Markets
Over Three-Year Rolling Periods

	Median	Top Quartile
Average Alpha	160 bps	430 bps
Average Fee	90 bps	
Multiple of Fee	1.8x	4.8x
Index Fee	20 bps	

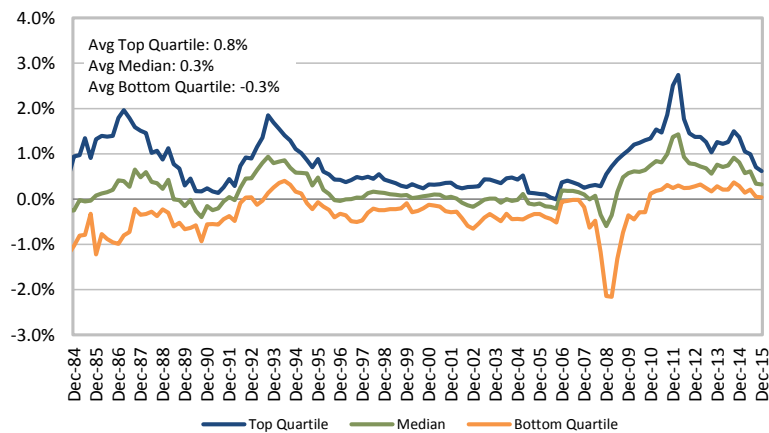
- Substantial return difference between 1st quartile and median, asset class can be garnered inexpensively.

INDUSTRY EXCESS RETURN CHARACTERISTICS: FIXED INCOME (AS OF DECEMBER 31, 2015)

Fixed Income

Core Fixed Income

Level of Over/Under Performance vs. Barclays Aggregate Over Three-Year Rolling Periods

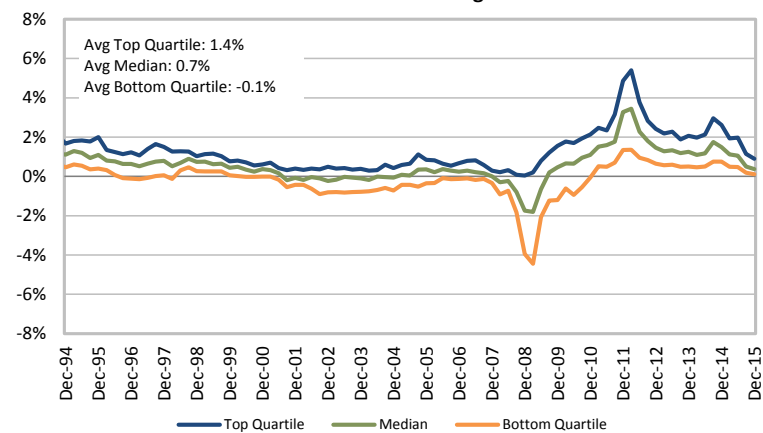


	Median	Top Quartile
Average Alpha	30 bps	80 bps
Average Fee	26 bps	
Multiple of Fee	1.2x	3.1x
Index Fee	~9 bps*	

- Challenging to garner material excess returns from active management, net of fees.

Core Plus Fixed Income

Level of Over/Under Performance vs. Barclays Universal Over Three-Year Rolling Periods



	Median	Top Quartile
Average Alpha	70 bps	140 bps
Average Fee	31 bps	
Multiple of Fee	2.3x	4.5x
Index Fee	~14 bps*	

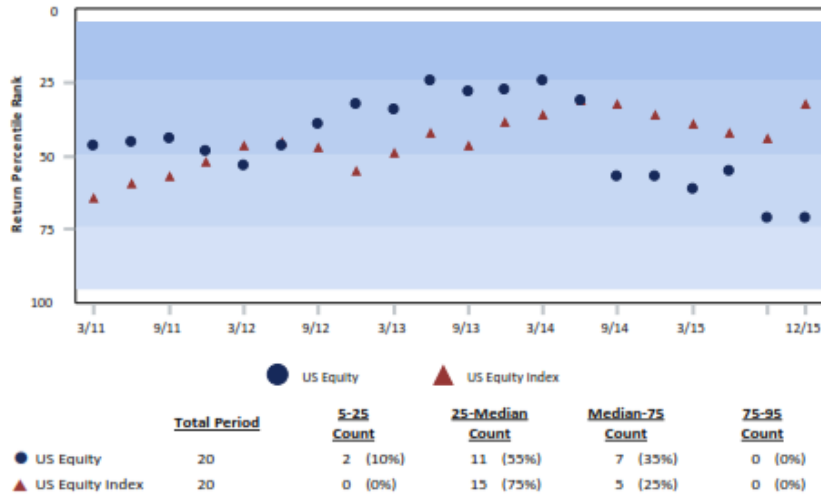
- A challenging space to realize substantial excess returns, net of fees, but significantly greater alpha potential than core fixed income.

Average fee estimates are for \$100 million mandate for Core Fixed Income and Core Plus Fixed Income.

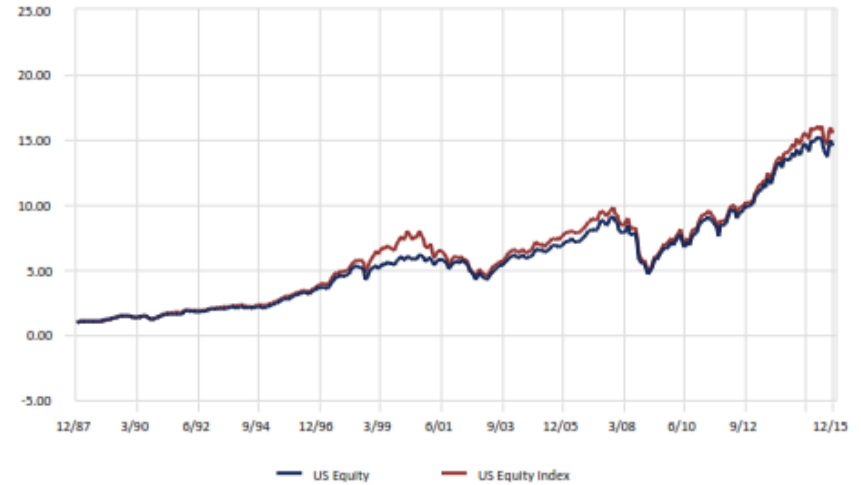
*Index fee estimates based on iShares Core U.S. Aggregate Bond ETF (Core) and iShares Core Total USD Bond Market ETF (Core Plus).

DOMESTIC EQUITY: PERFORMANCE SUMMARY (AS OF DECEMBER 31, 2015)

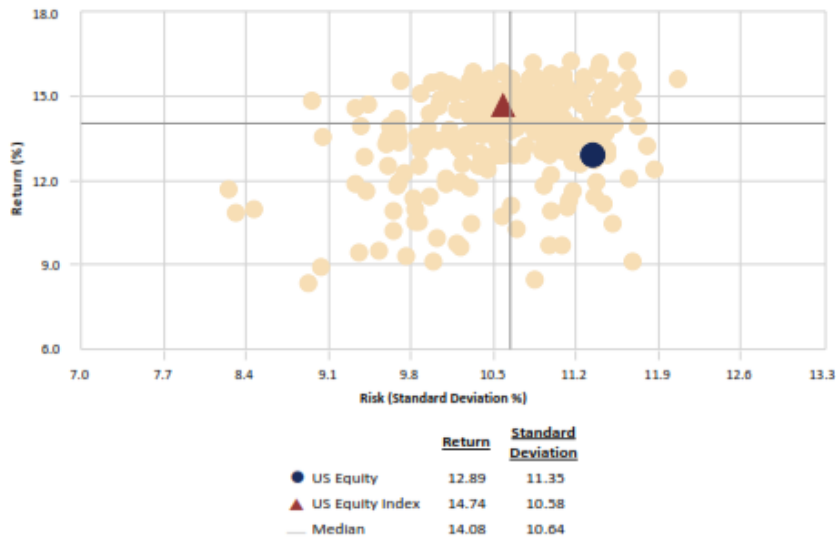
3 Year Rolling Return Rank



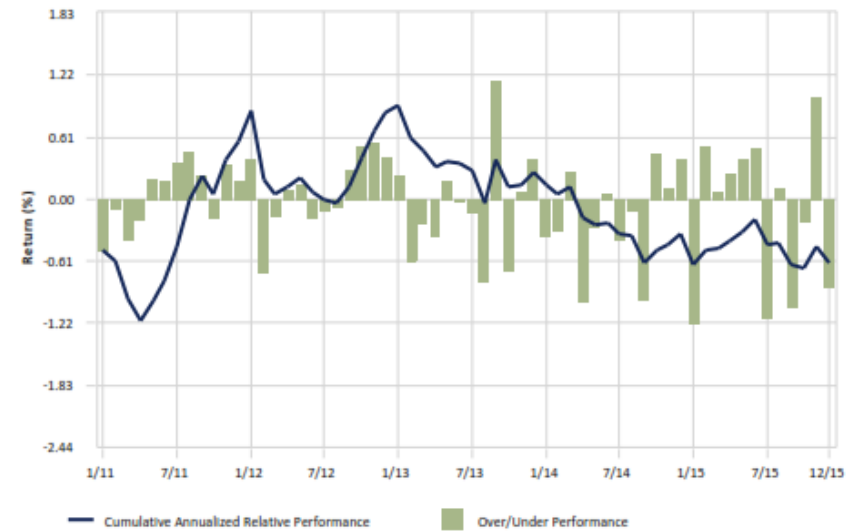
Growth of \$1 - Since Inception (01/01/88)



Risk vs. Return (01/01/13 - 12/31/15)

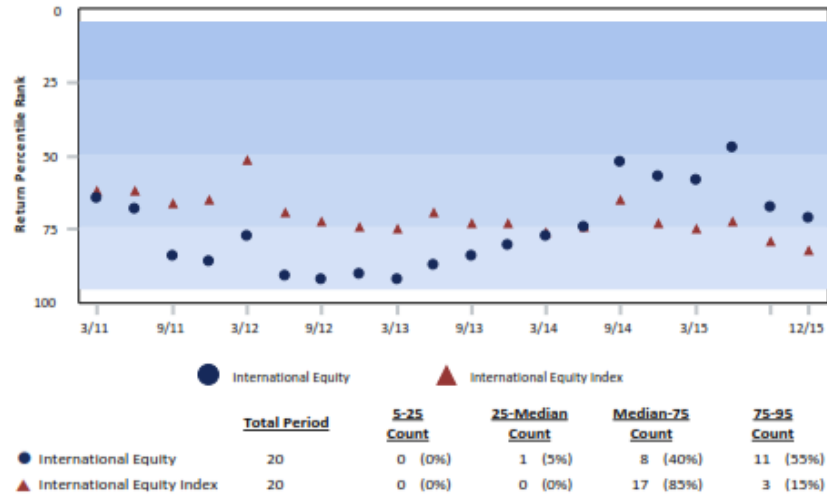


Relative Performance vs. US Equity Index



INTERNATIONAL EQUITY: PERFORMANCE SUMMARY (AS OF DECEMBER 31, 2015)

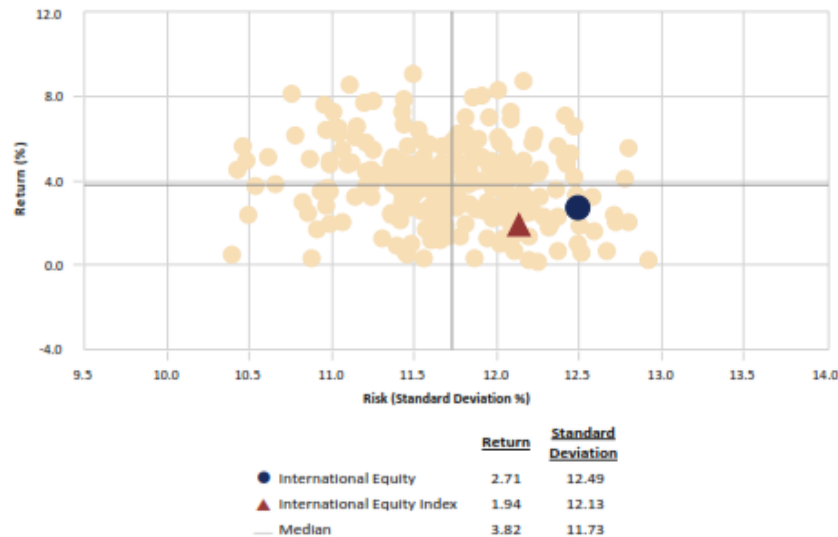
3 Year Rolling Return Rank



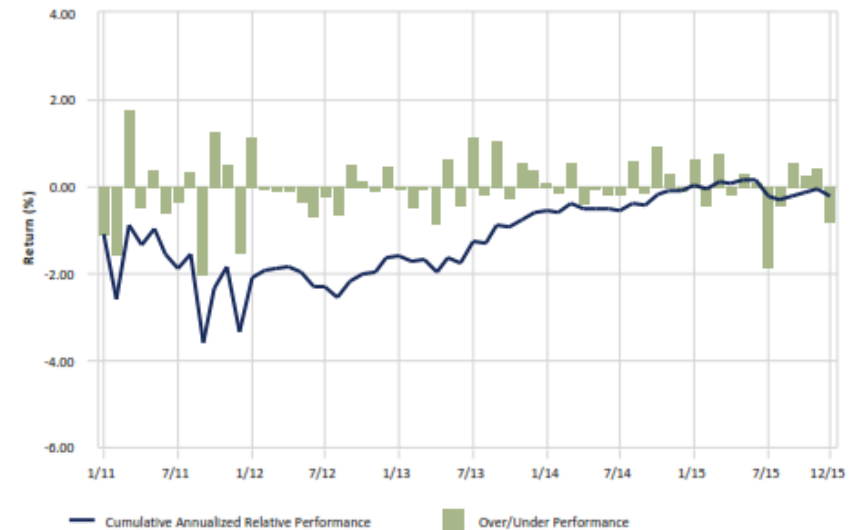
Growth of \$1 - Since Inception (02/01/99)



Risk vs. Return (01/01/13 - 12/31/15)

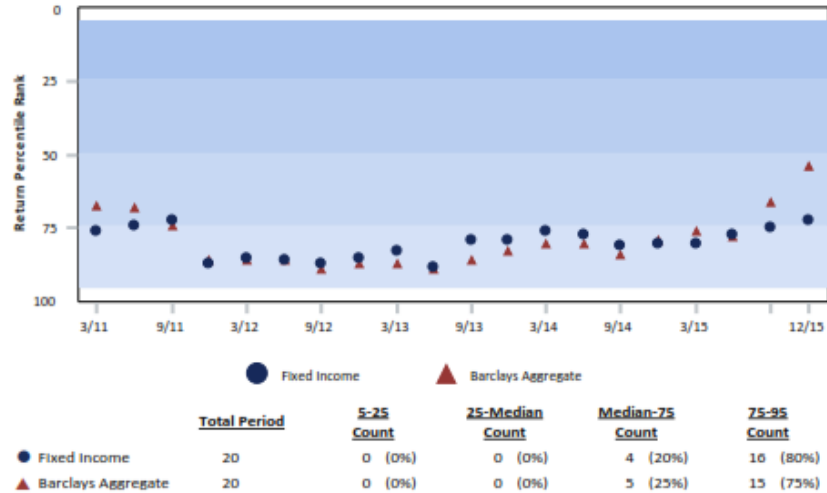


Relative Performance vs. International Equity Index

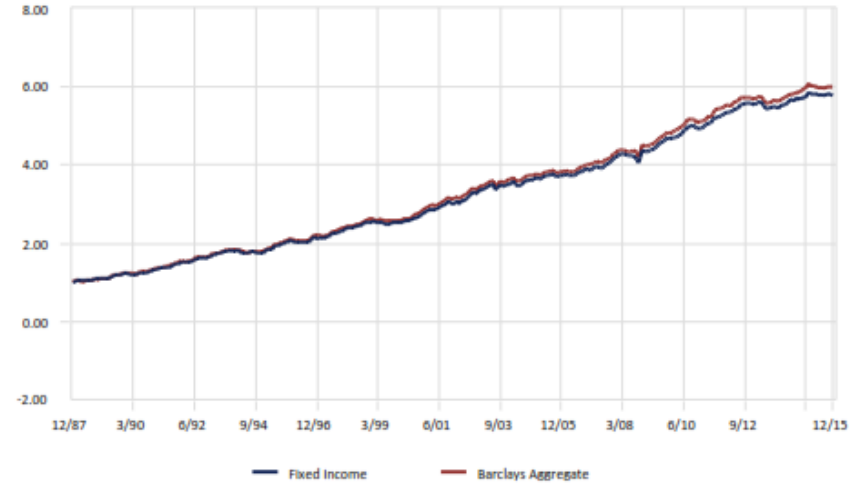


FIXED INCOME: PERFORMANCE SUMMARY (AS OF DECEMBER 31, 2015)

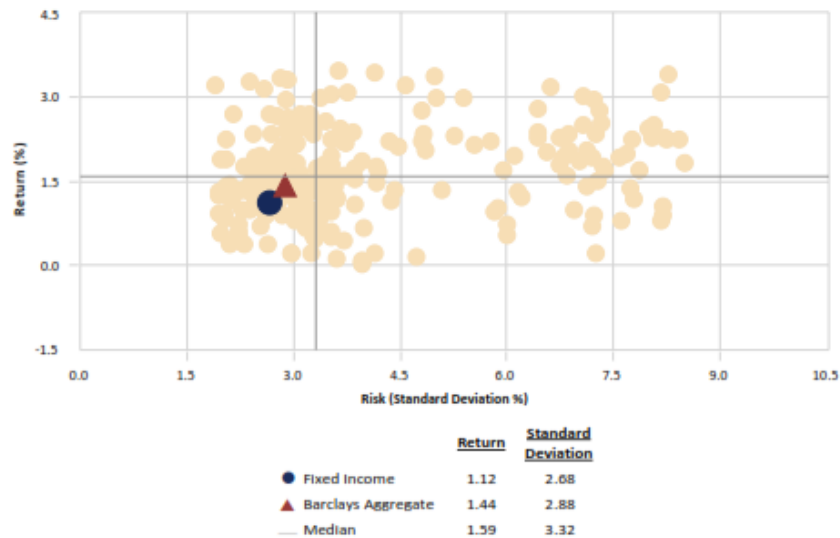
3 Year Rolling Return Rank



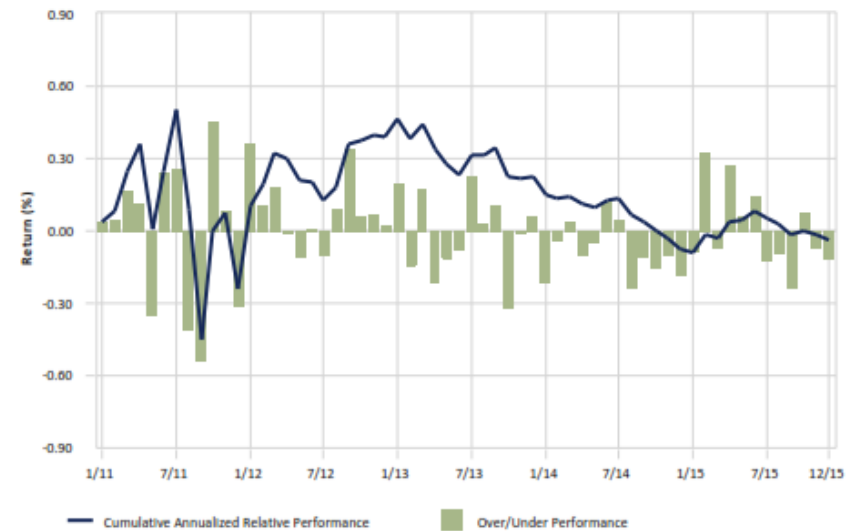
Growth of \$1 - Since Inception (01/01/88)



Risk vs. Return (01/01/13 - 12/31/15)



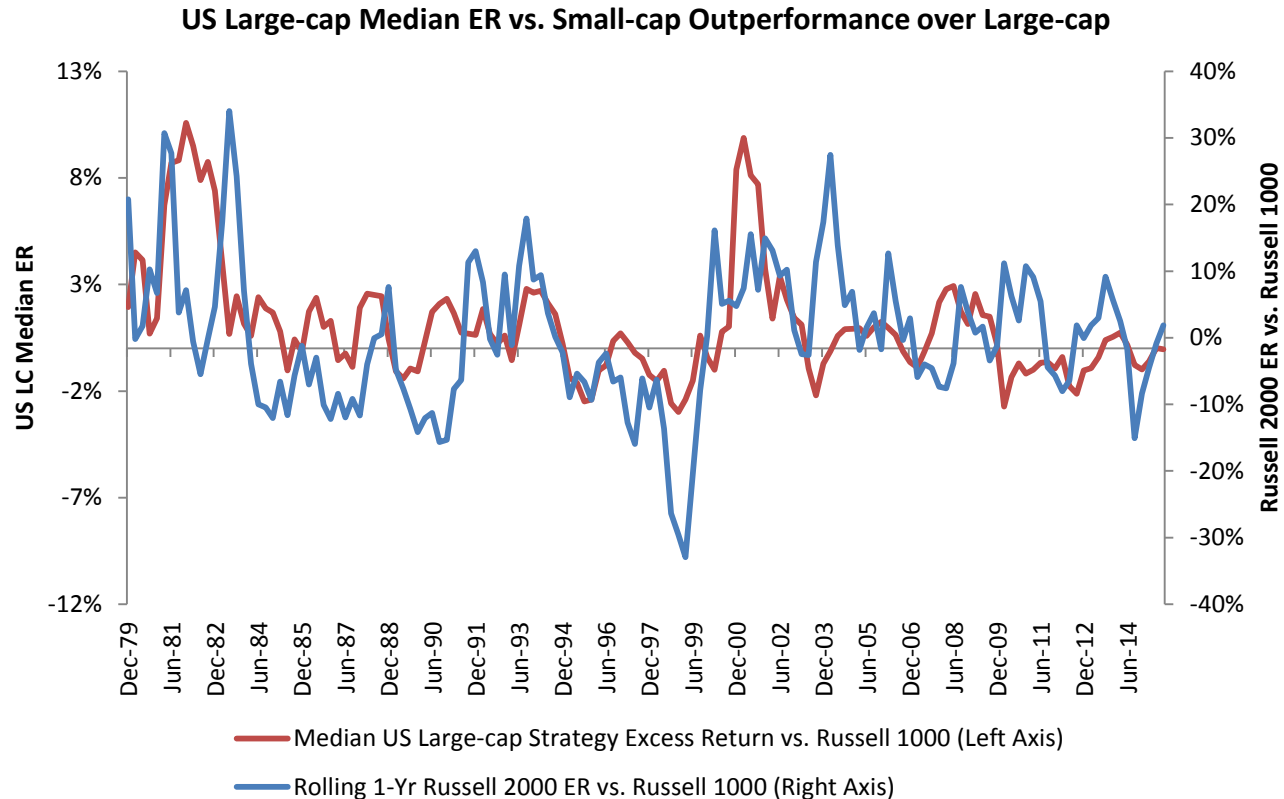
Relative Performance vs. Barclays Aggregate



INITIAL FINDINGS

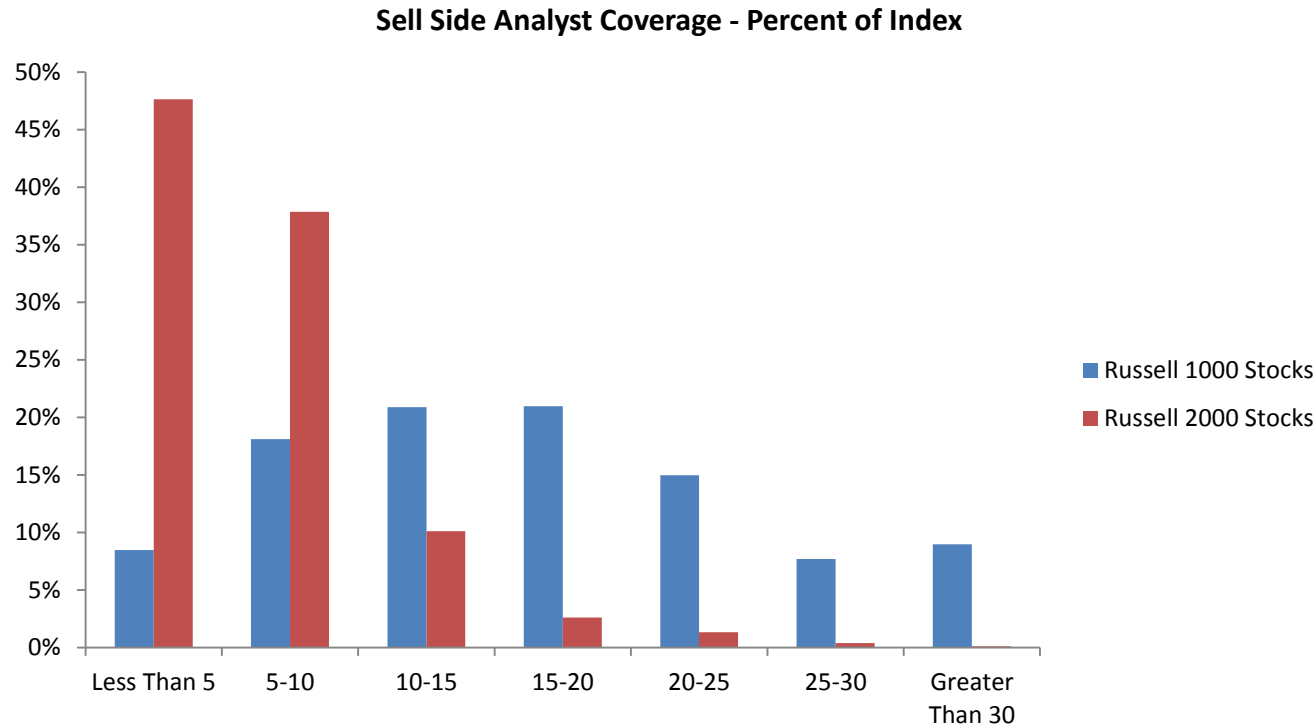
- The most challenging asset class to generate consistent manager alpha has been large cap domestic equity.
 - This statement applies to both:
 - The industry in general, and;
 - The City of Jacksonville Police & Fire Pension Fund's experience.
- The following pages contain a “deeper dive” on the dynamics that have potentially produced this situation within the domestic large cap equity space.

THE IMPACT OF THE CAPITALIZATION CYCLE UPON LARGE CAP MANAGER PERFORMANCE



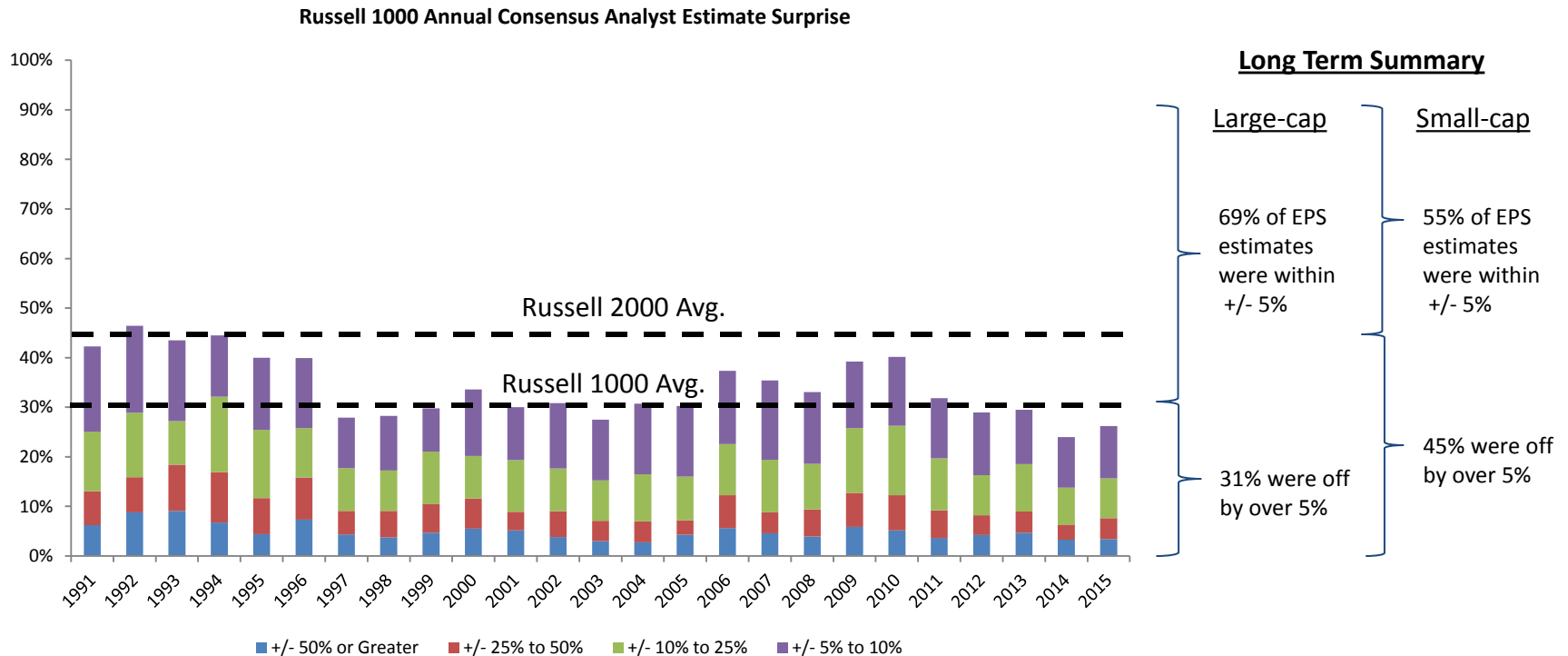
- Historically, median excess return in the US large-cap market has been highly correlated to relative performance of smaller-cap stocks. This makes intuitive sense given that most active strategies are underweight to mega-cap stocks and overweight to mid-cap stocks.

US EQUITY SELL SIDE ANALYST COVERAGE: LARGE VERSUS SMALL



- The median stock in the Russell 1000 Index currently has 16 independent sell-side analysts providing an EPS estimate for the next 12-month period. The most noteworthy stocks in the index have as many as 45 estimates – Google, 45, Schlumberger 44, Facebook 44, Halliburton 42, Apple 41, Salesforce.com 40, etc.
- It is hard to comprehend how an asset management firm can add much value by creating the 42nd opinion on Apple.
- Coverage of small-cap stocks is dramatically lower, which is consistent with the less efficient, higher value added reality of the asset class.
 - 85% of small cap names have less than ten analysts covering the stock.

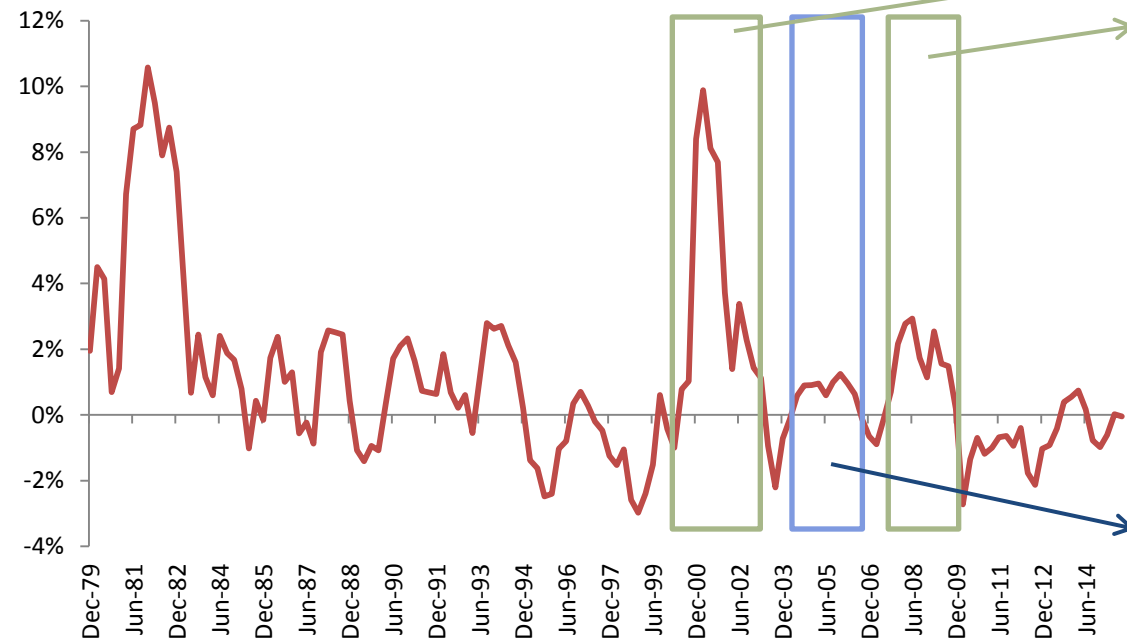
HOW “RIGHT” ARE ANALYSTS? EPS SURPRISE WITHIN LARGE CAP AND SMALL CAP



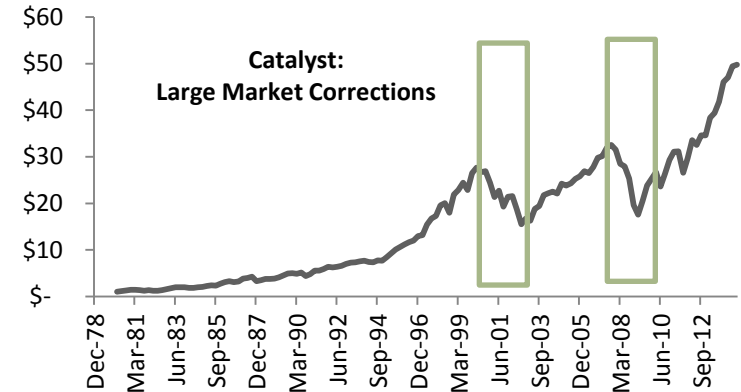
- Fundamental research analysts at asset management firms generally take a view on whether a company is positioned to exceed or miss sell-side analyst estimates. When a company posts results widely off from sell-side estimates, the surprise results often are the catalyst for a large stock price move and future estimate revisions.
- Within the Russell 1000 stock universe, sell-side analysts have historically been very accurate at estimating company results. In 2015, only 254 of the 1000 companies in the index surprised analyst estimates by greater or less than 5%. This implies that the opportunity set for fundamental analysts in US large-cap is fairly small.

MOST RECENT ENVIRONMENTS WHEN ACTIVE MANAGEMENT WORKED

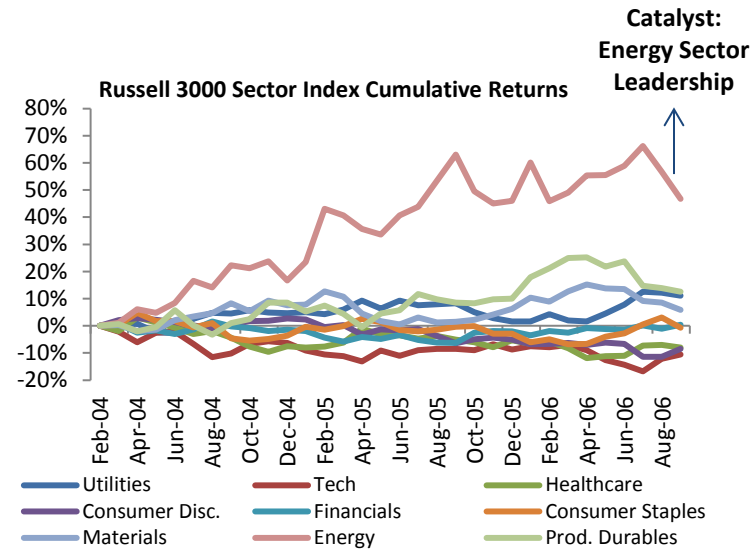
**US Large-cap Universe
Median Rolling 1-Yr Gross Excess Return vs. Russell 1000 Index**



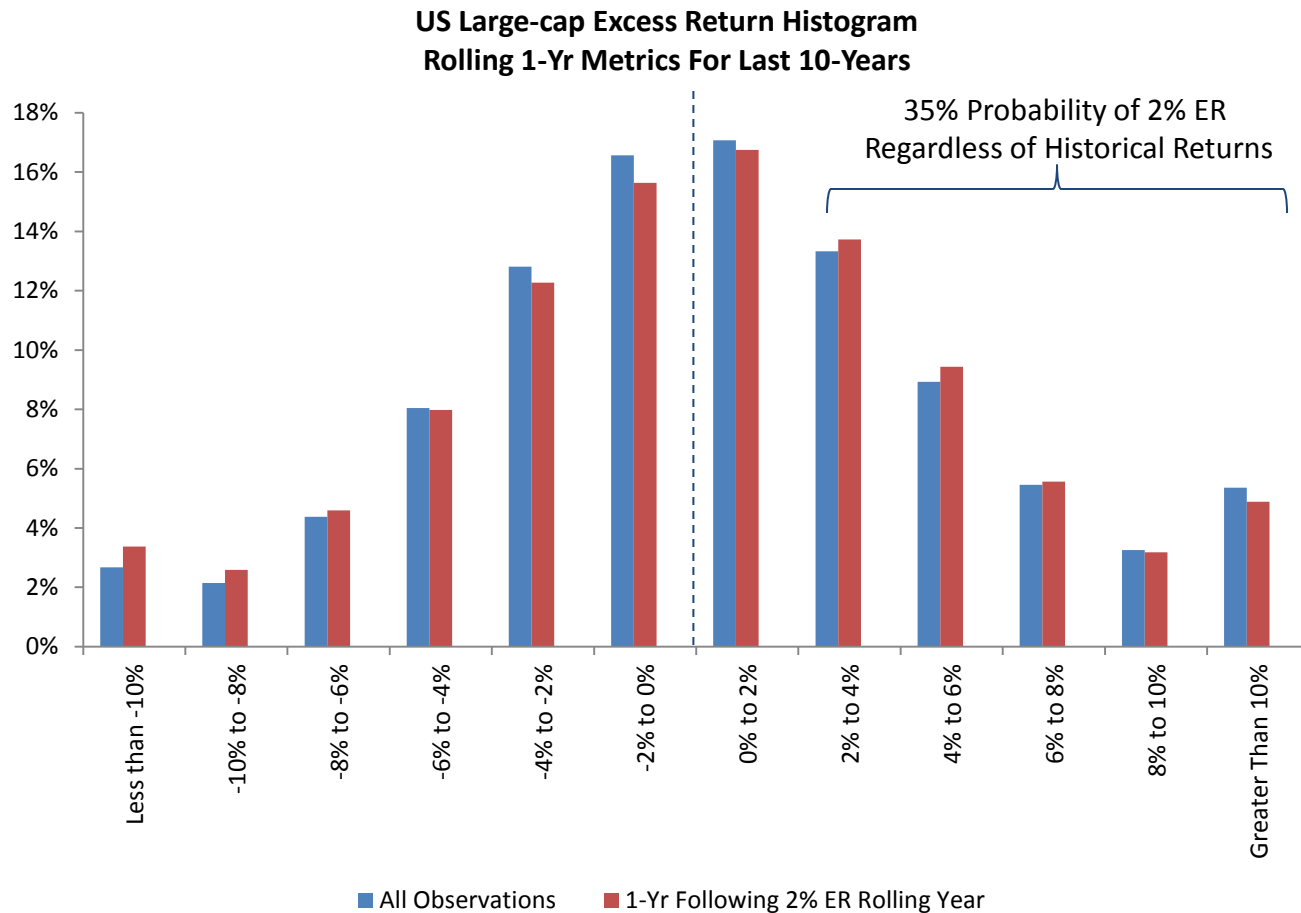
Russell 1000 Index Cumulative Growth of \$1



Russell 3000 Sector Index Cumulative Returns



PERSISTENCE OF EXCESS RETURNS – IS THERE INFORMATION IN PAST PERFORMANCE?

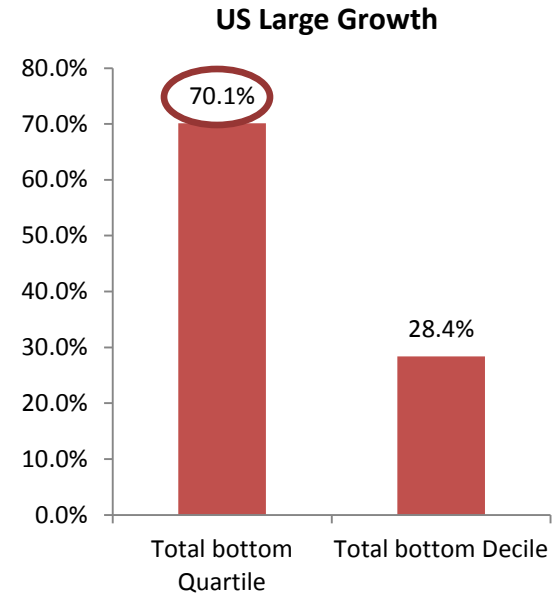
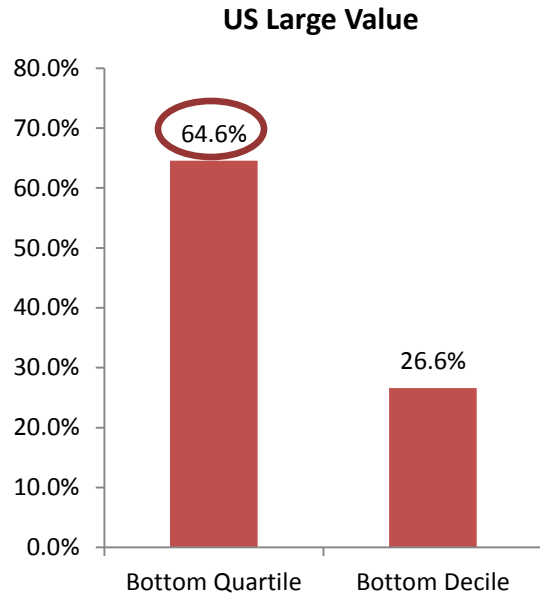


- Historically, strong performance (1-Yr excess return of 2% or greater) has not been a predictor of superior future excess returns.

Notes: Returns are gross of fees. Time period (Nov-2004 to Sept-2014) represents longest common time period.
All observations (Red): 123,203 rolling 1-Yr data points; 1-Yr Following 2% ER (Blue): 49,129 rolling 1-Yr data points

LONG-TERM INVESTING PROOF STATEMENT: EVEN THE GOOD MANAGERS APPEAR “DUMB” SOMETIMES

Percentage of Top-Quartile Managers over Most Recent 10 Years Who Ranked Poorly for at Least One 3-year Period



- The most successful investment strategies over the most recent (September 2015) trailing 10-Yr period have almost all been significantly out of favor for a period of time.
- Investors that have been able to weather the storm have been rewarded; however, many of these managers will admit that a large number of clients hire and fire them at the absolute worst times.

TAKEAWAYS REGARDING LARGE CAP ACTIVE MANAGEMENT

- Unless an investor is willing to embrace the following concepts in implementing an actively managed structure, *it will be destined to fail, and the default passive approach would have been preferable*:
 - **Patience:** A long-term time horizon is required. No manager can “get it right” all of the time. Tracking error goes both ways, and excess returns are lumpy in markets that are largely efficient.
 - **Build a Portfolio of Managers with Diversified Style Biases.** If all strategies in the portfolio outperform during the same type of market environment, they will likely all underperform in a different type of market environment. Proper manager sizing and diversification across styles will allow for a portfolio structure that can weather challenging performance cycles.
 - **Avoid Reactionary Responses:** Simply put, chasing recent performance does not work.
 - **Rebalancing Can Be Additive to Performance.** If manager excess return expectations are well defined, mean reversion opportunities will present themselves. Taking money from outperforming strategies and giving it to underperforming strategies can only be implemented successfully if an understanding of when each strategy should and has added value is established up-front.
 - **Dedicate Resources to the Endeavor:** The successful implementation of such a structure requires that resources are continually dedicated to the oversight of the investment program, allowing for the production of analysis to continue to address if the investment program is on track, even at times when it does not appear at first glance to be on track.

OTHER POSSIBLE APPROACHES

- Numerous strategies can be employed to try to improve upon the default position (index management) within domestic large cap.
 - We must not lose sight that this is not purely about performance, but we must have an eye towards the volatility and tracking error introduced by moving away from the default position.
- Other possible approaches are described on the following page, which generally include:
 - Quantitative/enhanced strategies that focus on modest alpha production with tight tracking error.
 - A diversified portfolio of very different, very active managers. This type of approach generally produces the most volatile portfolio, with the highest amount of tracking error.
 - A core/satellite approach.
 - This approach is a blend of the two strategies described above.
 - This approach utilizes either a passive or quantitative manager to provide the “anchor” within the portfolio to control tracking error, complemented by a select number of managers (sized accordingly) to provide most of the alpha potential.

THE SPECTRUM OF ACTIVE/PASSIVE IMPLEMENTATION OPTIONS

Passive

- Investment Goal – Track the desired benchmark.
- Pros – Provides low-cost exposure to desired asset class.
- Cons – Zero excess return potential and slightly negative excess return net of fees.
- Investment Case – Active management and manager selection in US large-cap is challenging and has historically gone through extended periods when it has been out of favor.
- Implementation Considerations – Minimize cost and tracking error and maximize liquidity.

Benchmark Aware

- Investment Goal – Beat desired benchmark while limiting tracking error.
- Pros – Potential excess return upside with limited risk of a blowup.
- Cons – Net of fee excess return is low compared to more active strategies.
- Investment Case – There have been a number of strategies that have produced very consistent levels of excess return while maintaining low tracking error through high diversification.
- Implementation Considerations – Fees matter a lot due to lower expected returns. Many strategies in this category don't explicitly come out and say that this is what they are doing. A large number of strategies in this category fail to outperform.

Very Active

- Investment Goal – Beat desired benchmark.
- Pros – High potential excess return.
- Cons – Excess returns are typically lumpy due to biased investment styles and tracking error is high.
- Investment Case – There have been a number of strategies that have been able to deliver very high excess returns when the strategy's style was in favor and kept up with their benchmark in other periods.
- Implementation Considerations – Hiring, firing, and reweighting these types of strategies at the right times is extremely important. Utilization of multiple strategies using different investment biases often produces higher risk adjusted returns than a single strategy.

Core/Satellite – utilizes a blend of approaches

CONCLUSIONS AND RECOMMENDATIONS

CONCLUSIONS

- Some asset classes require the use of active management, as passive alternatives do not exist.
- For those asset classes where a passive alternative exists, the default position should be passive management.
- An investor must be compelled to move away from the default (passive) position.
- Industry data indicates that large cap domestic is the most challenging asset class for active management to add value.
- Active and passive move into and out of favor over time.

RECOMMENDATIONS

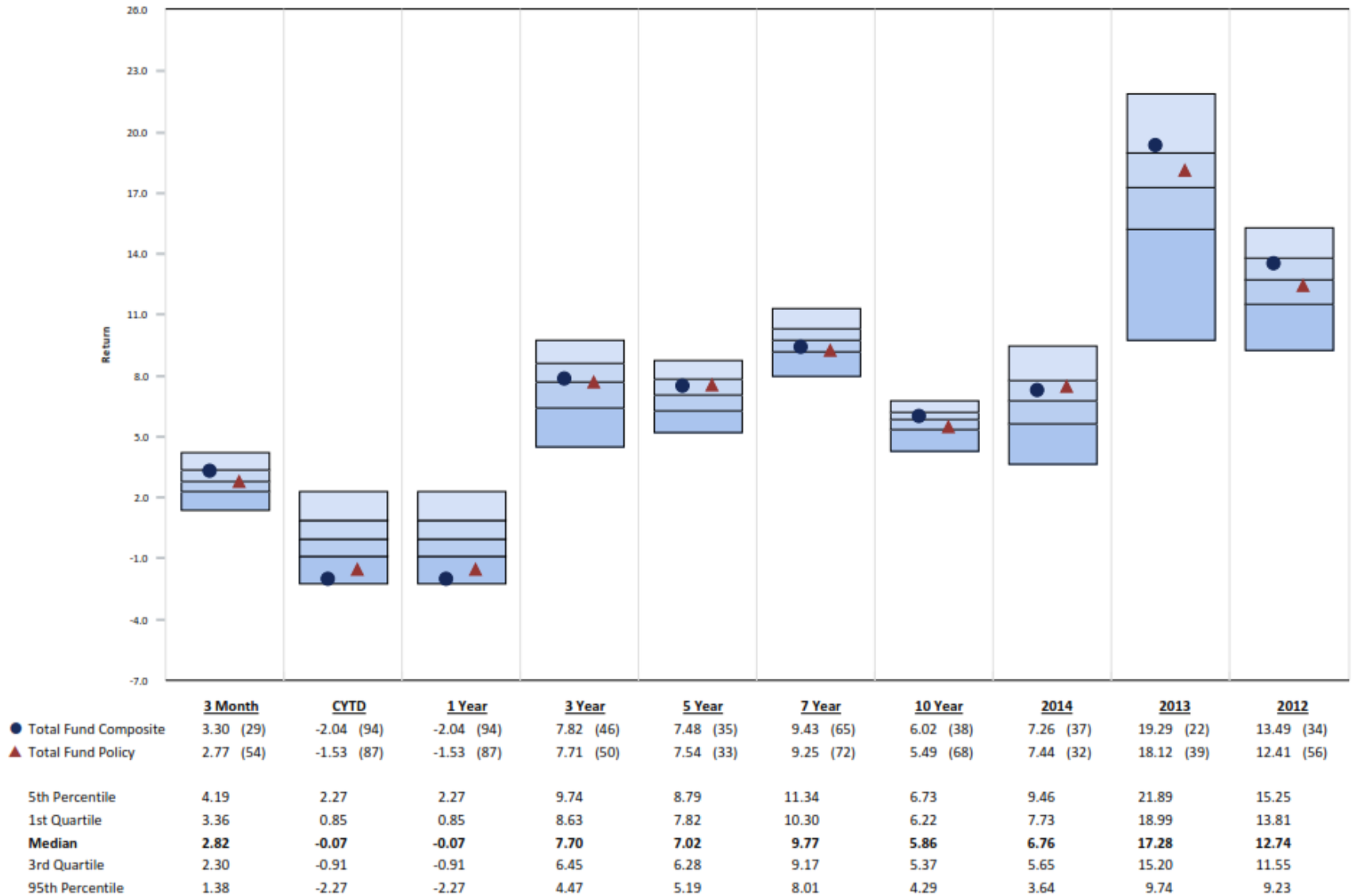
- Large Cap:
 - Current portfolio of active and passive is appropriate.
 - Passive default position is acceptable as well.
 - Sizing between active and passive can be discussed.

**TOTAL FUND
PERFORMANCE REVIEW**

TOTAL FUND – ALL DATA AS OF 12/31/2015

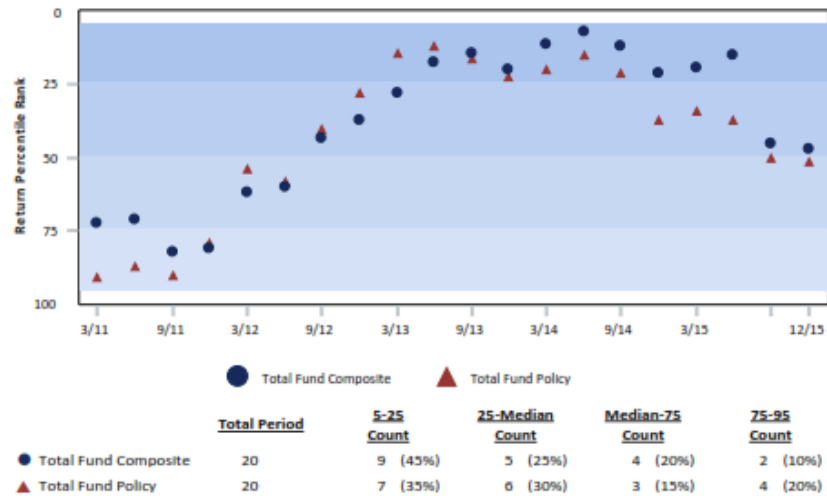
All Public Plans-Total Fund

December 31, 2015

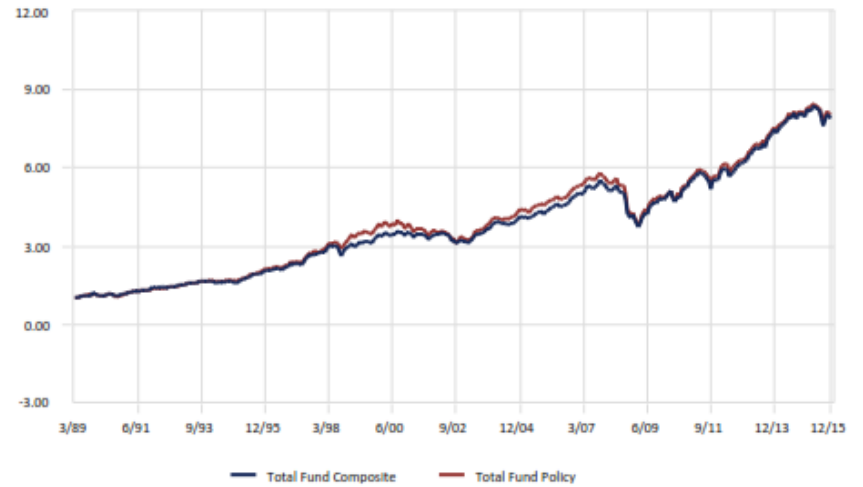


TOTAL FUND – ALL DATA AS OF 12/31/2015

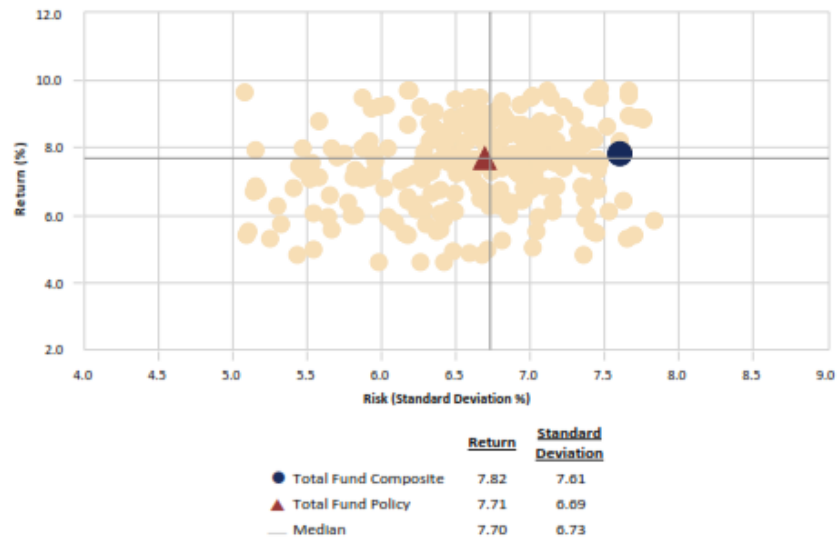
3 Year Rolling Return Rank



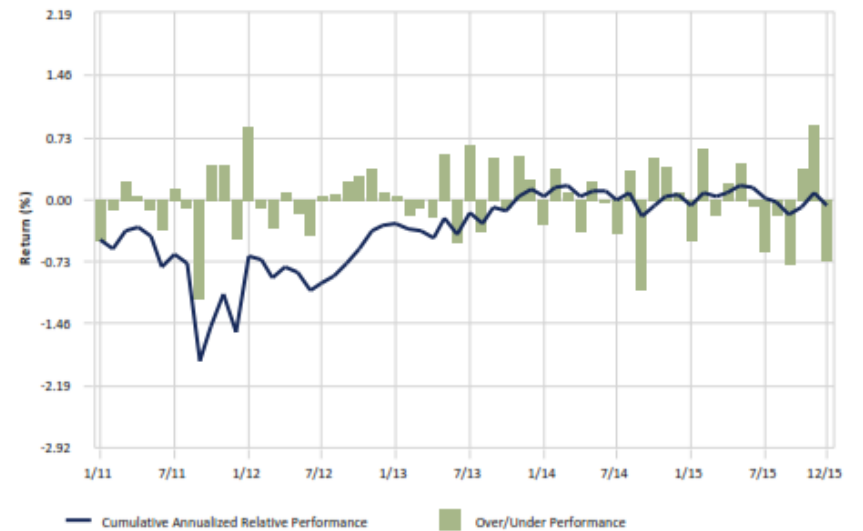
Growth of \$1 - Since Inception (04/01/89)



Risk vs. Return (01/01/13 - 12/31/15)

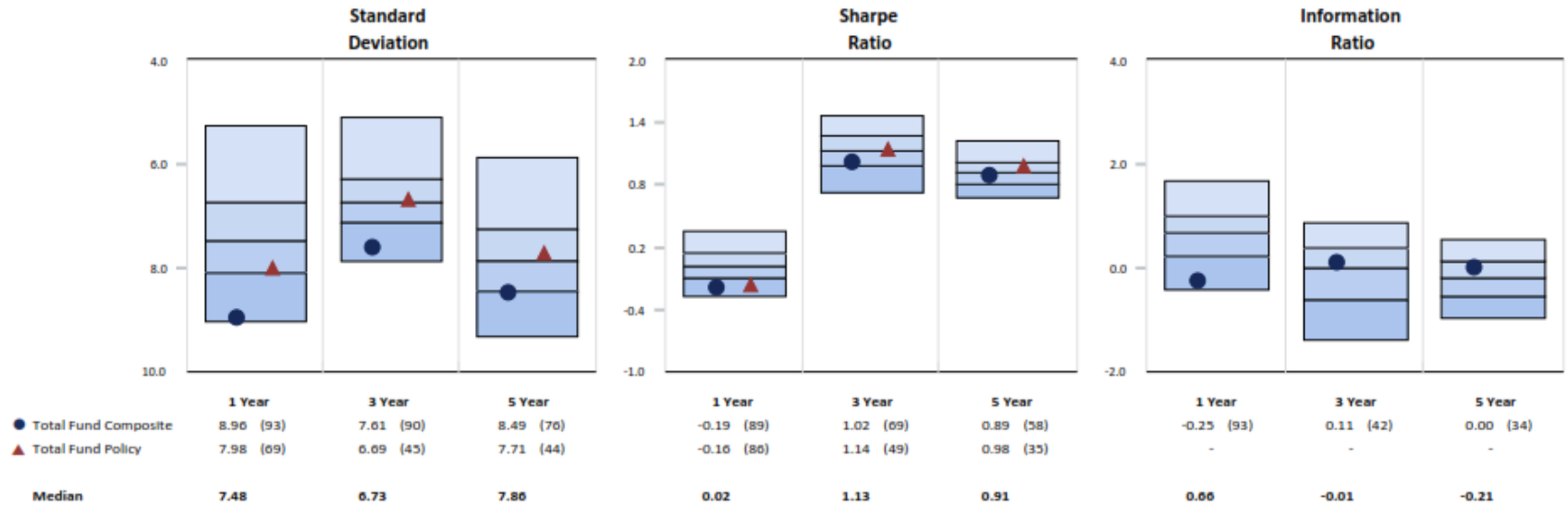


Relative Performance vs. Total Fund Policy

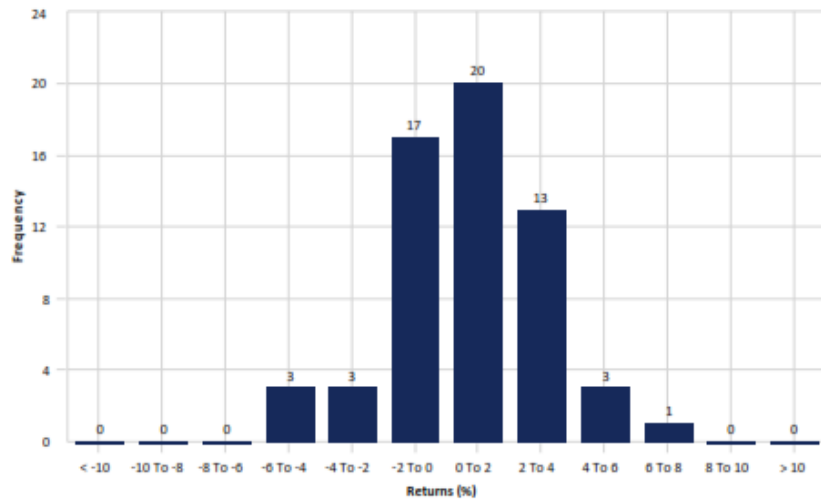


TOTAL FUND – ALL DATA AS OF 12/31/2015

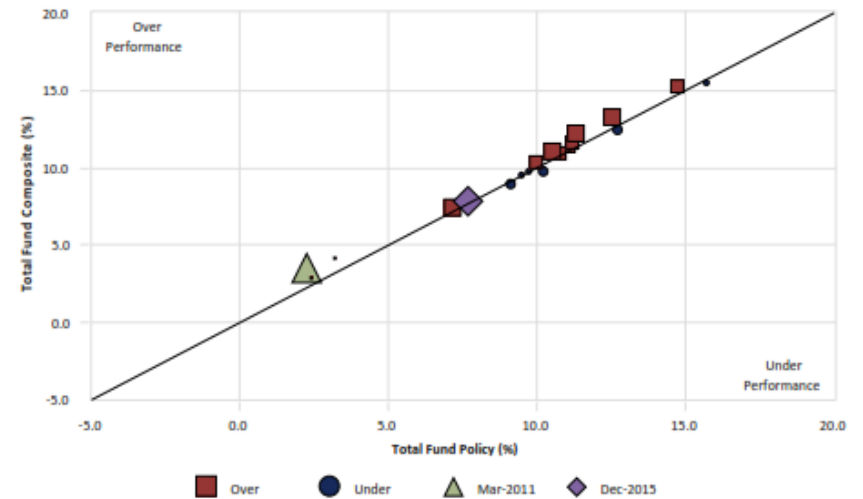
Peer Group Analysis: All Public Plans-Total Fund



Monthly Distribution of Returns



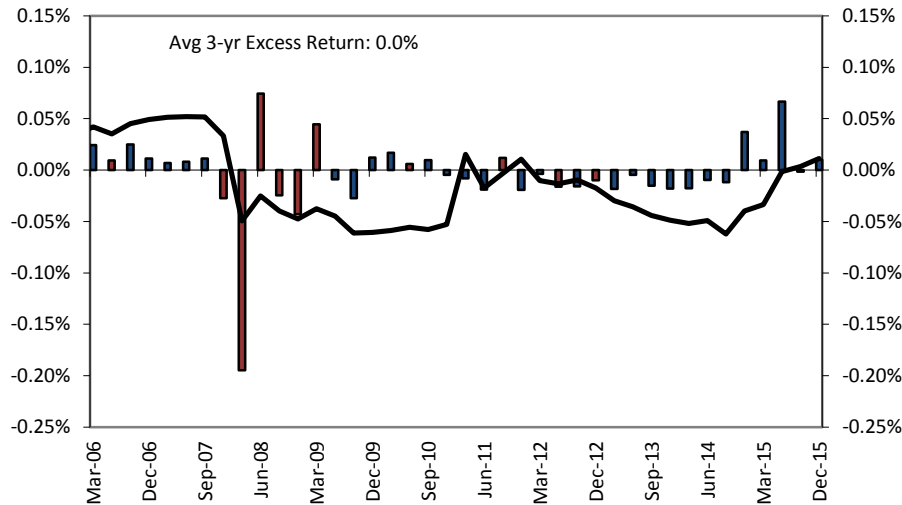
3 Year Rolling Under/Over Performance



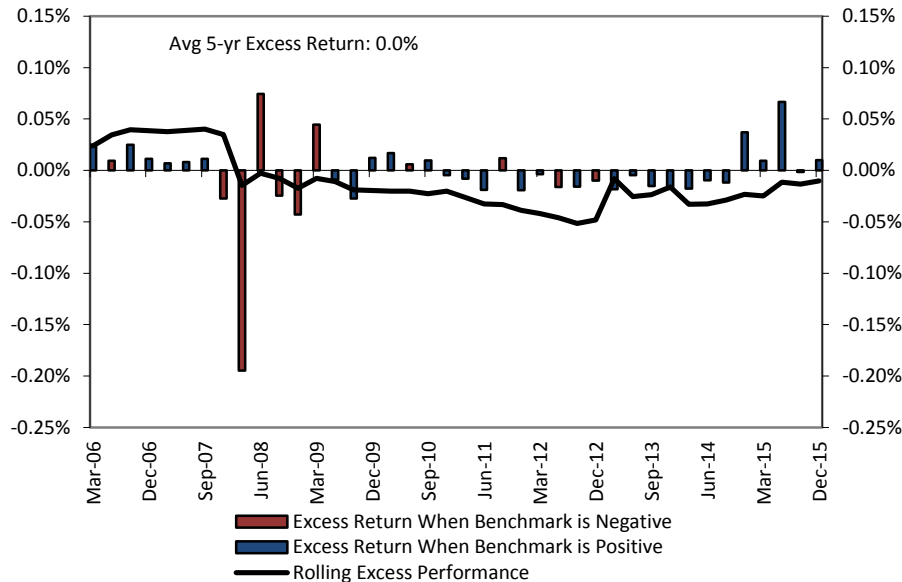
**DOMESTIC EQUITY
MANAGER PERFORMANCE REVIEW**

NORTHERN TRUST – NT S&P 500 INDEX EQUITY

Three-Year Rolling/Quarterly Excess Performance vs. S&P 500 Index



Five-Year Rolling/Quarterly Excess Performance vs. S&P 500 Index



Statistical Summary

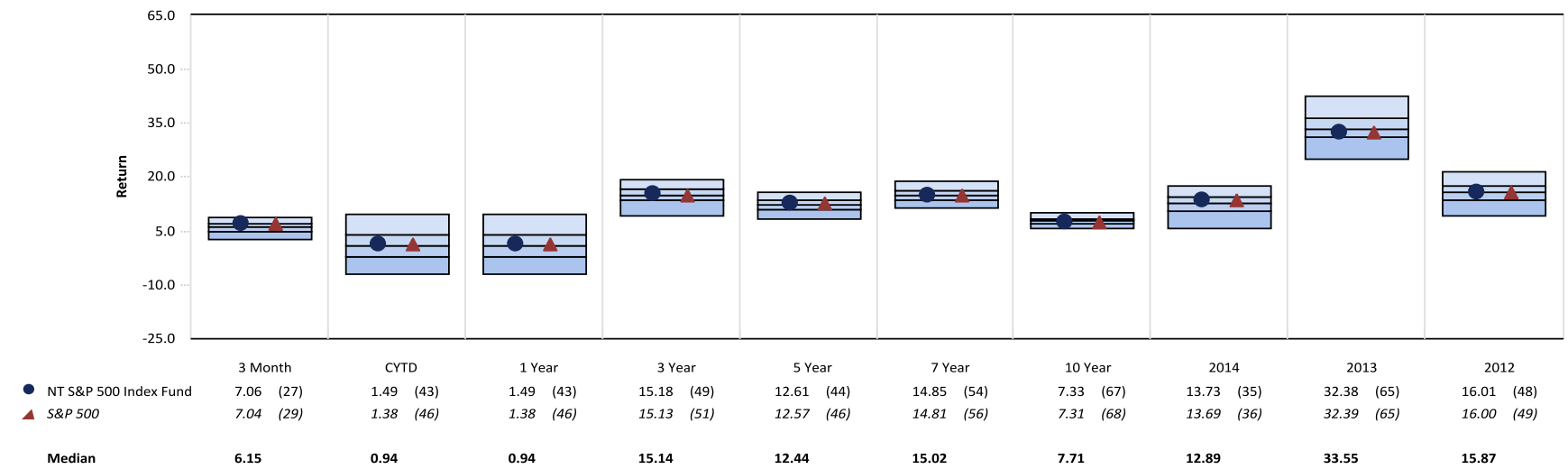
	As of 12/31/15	NT S&P 500	S&P 500
3 Year Performance:			
Annualized Return		15.1%	15.1%
Annualized St. Dev		9.4%	9.4%
Sharpe Ratio		1.60	1.60
Tracking Error		0.1%	0.0%
Info Ratio		0.21	0.00
Batting Average		33.3%	0.0%
Up Market Capture		100.1%	100.0%
Down Market Capture		100.0%	100.0%
5 Year Performance:			
Annualized Return		12.6%	12.6%
Annualized St. Dev		12.8%	12.8%
Sharpe Ratio		0.98	0.98
Tracking Error		0.0%	0.0%
Info Ratio		-0.24	0.00
Batting Average		25.0%	0.0%
Up Market Capture		100.0%	100.0%
Down Market Capture		100.1%	100.0%
7 Year Performance:			
Annualized Return		14.8%	14.8%
Annualized St. Dev		15.5%	15.6%
Sharpe Ratio		0.94	0.94
Tracking Error		0.0%	0.0%
Info Ratio		0.05	0.00
Batting Average		35.7%	0.0%
Up Market Capture		100.0%	100.0%
Down Market Capture		99.9%	100.0%
10 Year Performance:			
Annualized Return		7.3%	7.3%
Annualized St. Dev		16.5%	16.5%
Sharpe Ratio		0.36	0.36
Tracking Error		0.1%	0.0%
Info Ratio		-0.20	0.00
Batting Average		45.0%	0.0%
Up Market Capture		100.0%	100.0%
Down Market Capture		100.2%	100.0%

City of Jacksonville Police & Fire Pension Fund

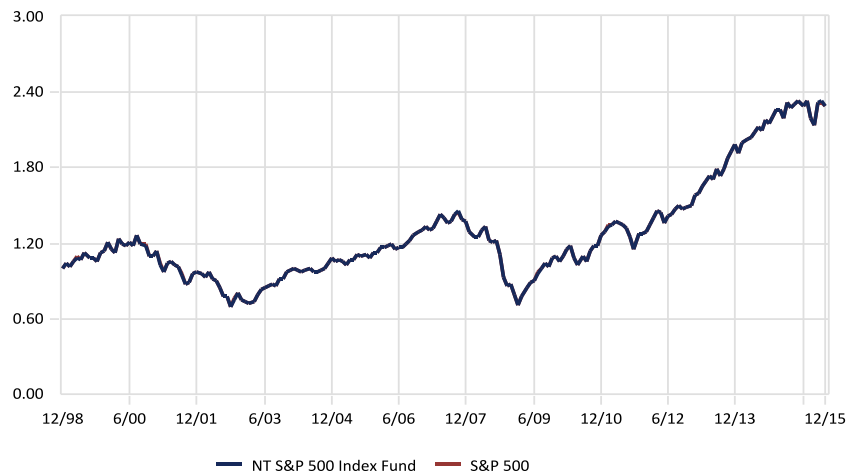
NT S&P 500 Index Fund

December 31, 2015

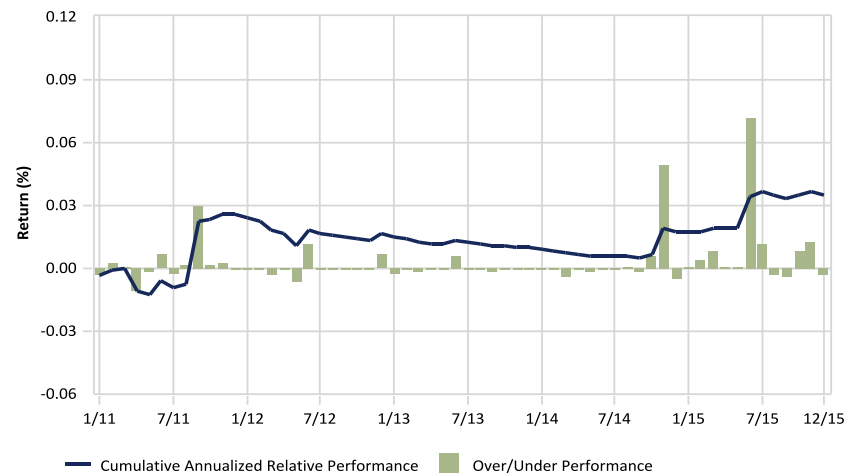
Peer Group Analysis - IM U.S. Large Cap Equity (SA+CF)



Growth of \$1 - Since Inception (01/01/99)



Relative Performance vs. S&P 500



City of Jacksonville Police & Fire Pension Fund

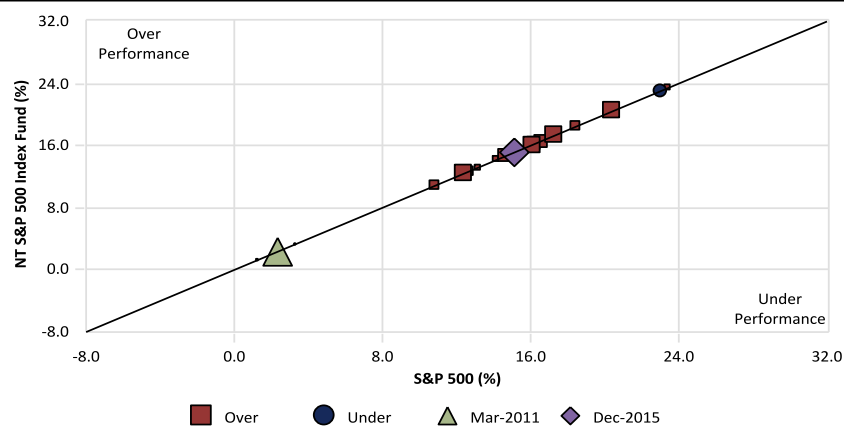
NT S&P 500 Index Fund

December 31, 2015

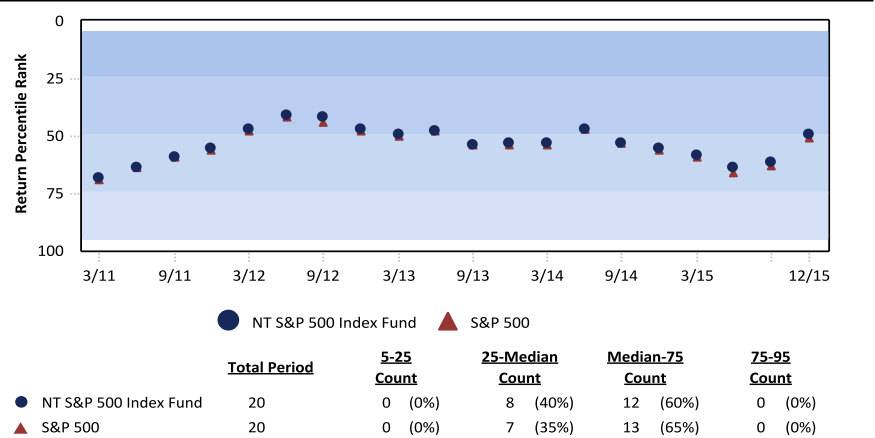
3 Year Portfolio Statistics

	Simple Alpha	Alpha	Beta	R-Squared	Tracking Error	Information Ratio	Sharpe Ratio	Consistency	Up Capture	Down Capture	Actual Correlation
NT S&P 500 Index Fund	0.06	0.05	1.00	1.00	0.05	0.97	1.40	41.67	100.11	99.76	1.00
S&P 500	0.00	0.00	1.00	1.00	0.00	-	1.40	0.00	100.00	100.00	1.00
90 Day US Treasury Bill	-15.09	0.06	0.00	0.17	10.49	-1.40	-	33.33	0.04	-0.34	-0.41

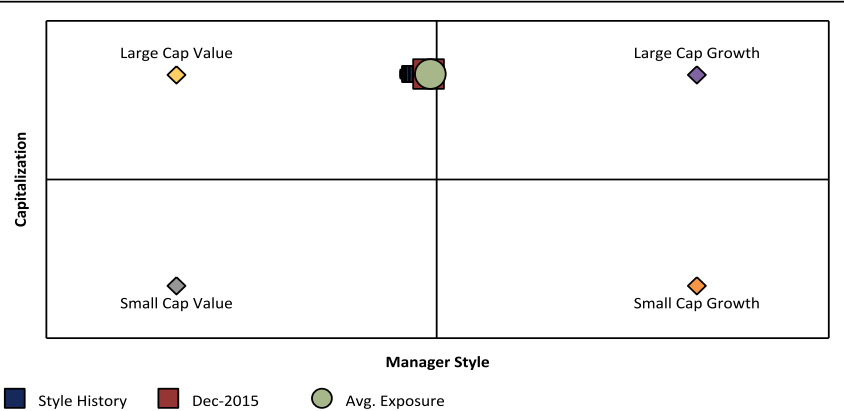
3 Year Rolling Under/Over Performance



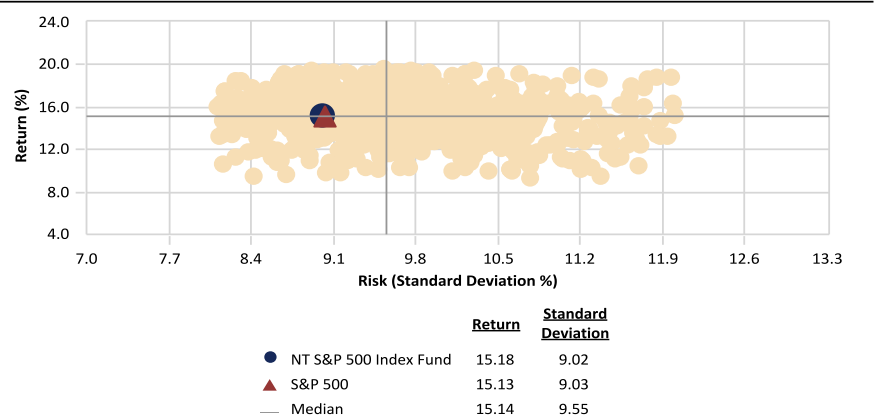
3 Year Rolling Relative Ranking



3 Year Style Analysis

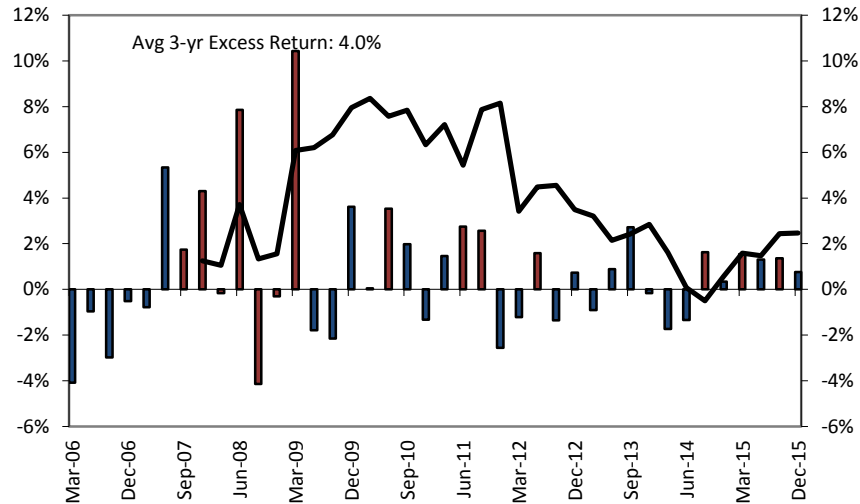


Risk vs. Return (01/01/13 - 12/31/15)

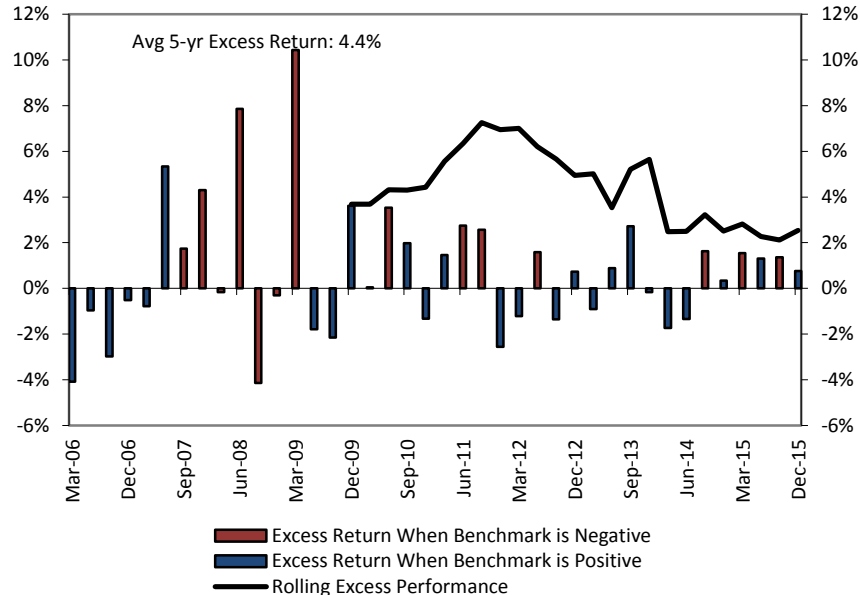


EAGLE CAPITAL MANAGEMENT – EAGLE EQUITY

Three-Year Rolling/Quarterly Excess Performance vs. Russell 1000 Value Index



Five-Year Rolling/Quarterly Excess Performance vs. Russell 1000 Value Index



Statistical Summary

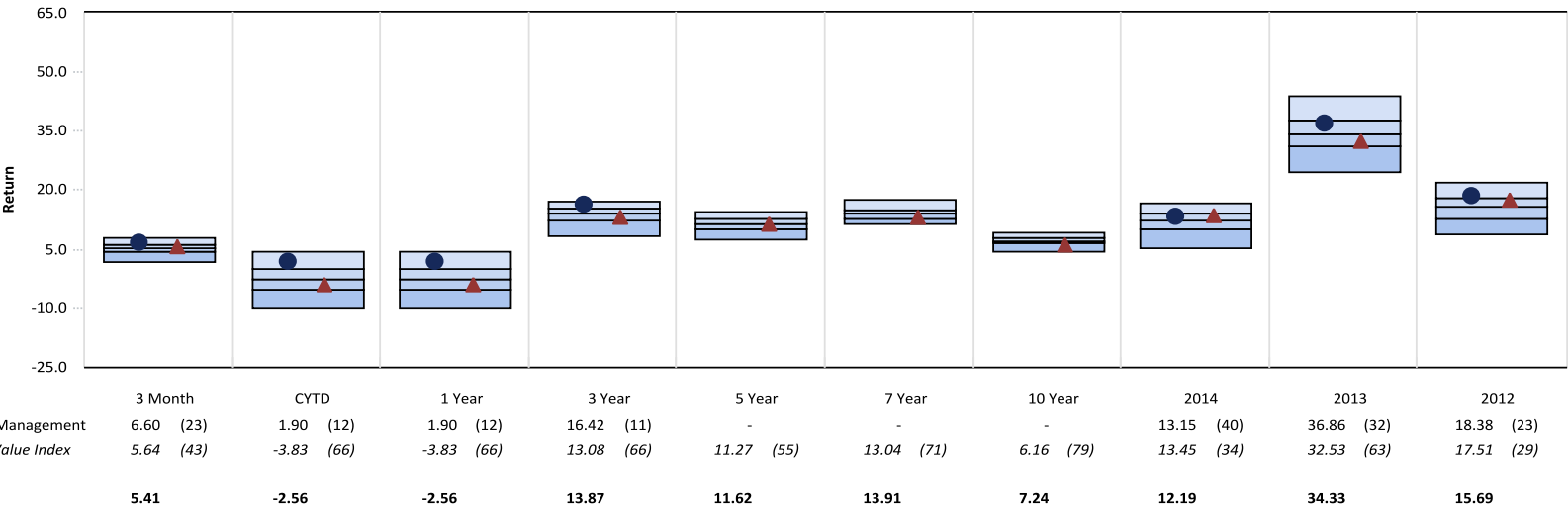
	As of 12/31/15	Eagle	Russell 1000 Value
3 Year Performance:			
Annualized Return		15.6%	13.1%
Annualized St. Dev		9.6%	10.7%
Sharpe Ratio		1.61	1.22
Tracking Error		2.7%	0.0%
Info Ratio		0.92	0.00
Batting Average		66.7%	0.0%
Up Market Capture		104.4%	100.0%
Down Market Capture		53.7%	100.0%
5 Year Performance:			
Annualized Return		13.8%	11.3%
Annualized St. Dev		12.0%	13.9%
Sharpe Ratio		1.15	0.81
Tracking Error		3.1%	0.0%
Info Ratio		0.81	0.00
Batting Average		65.0%	0.0%
Up Market Capture		99.0%	100.0%
Down Market Capture		62.5%	100.0%
7 Year Performance:			
Annualized Return		17.6%	13.0%
Annualized St. Dev		13.9%	17.4%
Sharpe Ratio		1.25	0.74
Tracking Error		5.1%	0.0%
Info Ratio		0.89	0.00
Batting Average		64.3%	0.0%
Up Market Capture		99.9%	100.0%
Down Market Capture		57.8%	100.0%
10 Year Performance:			
Annualized Return		9.7%	6.2%
Annualized St. Dev		15.8%	17.7%
Sharpe Ratio		0.53	0.27
Tracking Error		5.9%	0.0%
Info Ratio		0.60	0.00
Batting Average		55.0%	0.0%
Up Market Capture		97.3%	100.0%
Down Market Capture		70.7%	100.0%

City of Jacksonville Police & Fire Pension Fund

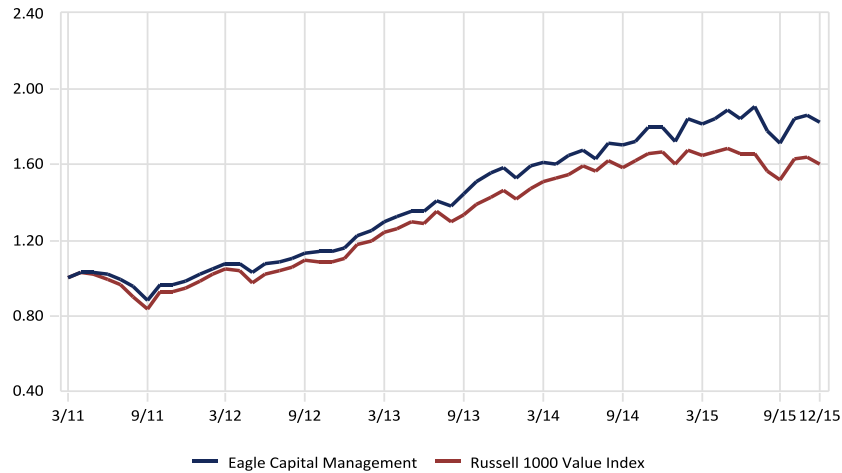
Eagle Capital Management

December 31, 2015

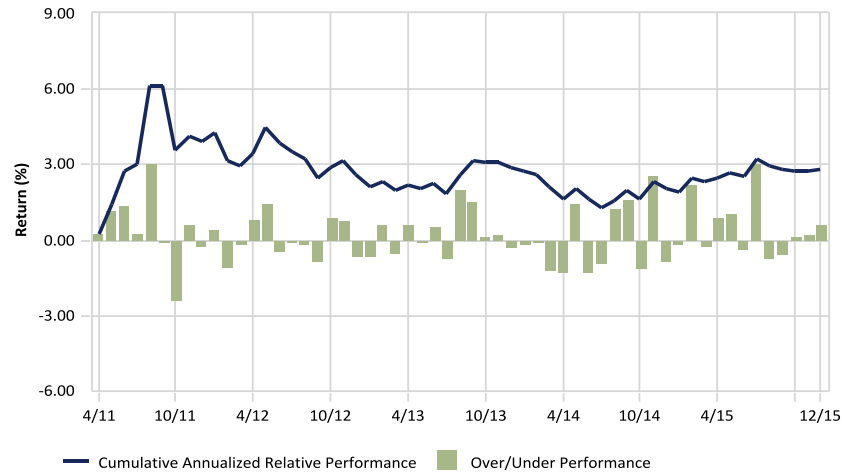
Peer Group Analysis - IM U.S. Large Cap Value Equity (SA+CF)



Growth of \$1 - Since Inception (04/01/11)



Relative Performance vs. Russell 1000 Value Index



City of Jacksonville Police & Fire Pension Fund

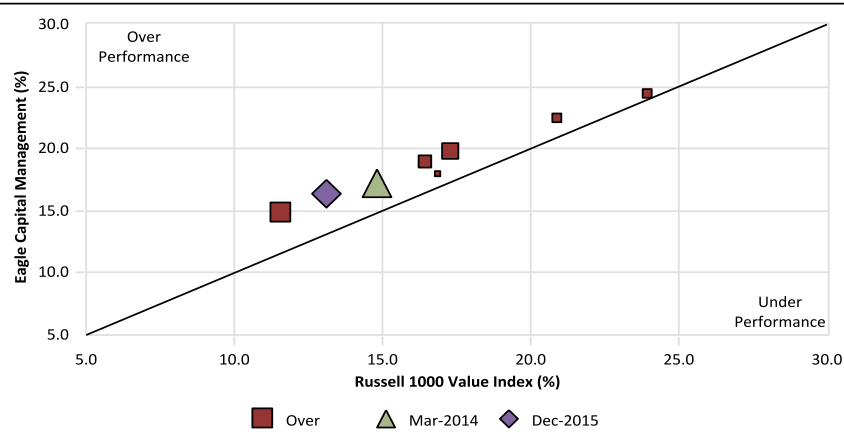
Eagle Capital Management

December 31, 2015

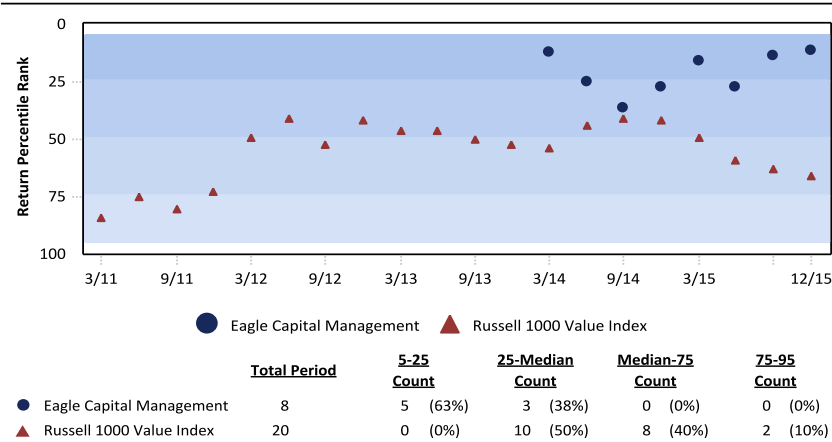
3 Year Portfolio Statistics

	Simple Alpha	Alpha	Beta	R-Squared	Tracking Error	Information Ratio	Sharpe Ratio	Consistency	Up Capture	Down Capture	Actual Correlation
Eagle Capital Management	3.34	3.09	1.00	0.88	3.87	0.78	1.40	50.00	111.02	95.32	0.94
Russell 1000 Value Index	0.00	0.00	1.00	1.00	0.00	-	1.20	0.00	100.00	100.00	1.00
90 Day US Treasury Bill	-13.04	0.05	0.00	0.15	10.69	-1.20	-	30.56	0.03	-0.31	-0.39

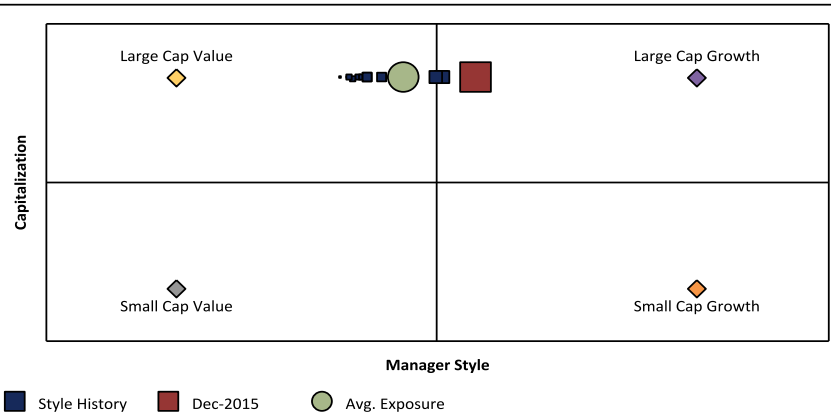
3 Year Rolling Under/Over Performance



3 Year Rolling Relative Ranking

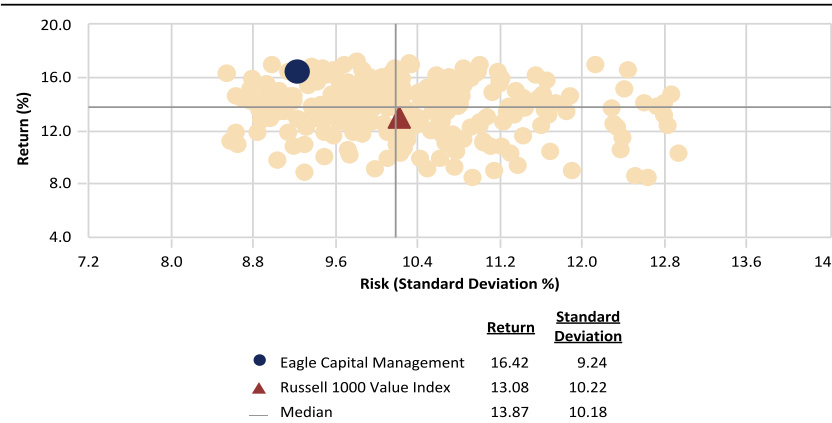


3 Year Style Analysis



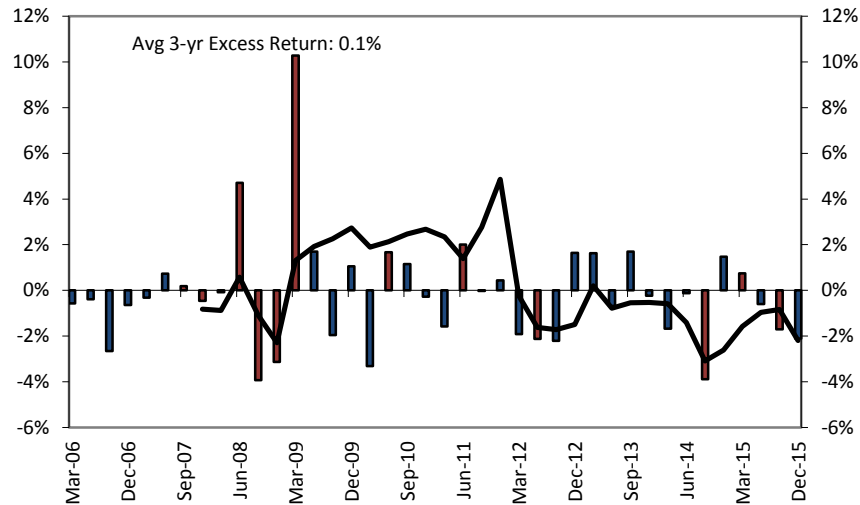
gross of fees

Risk vs. Return (01/01/13 - 12/31/15)

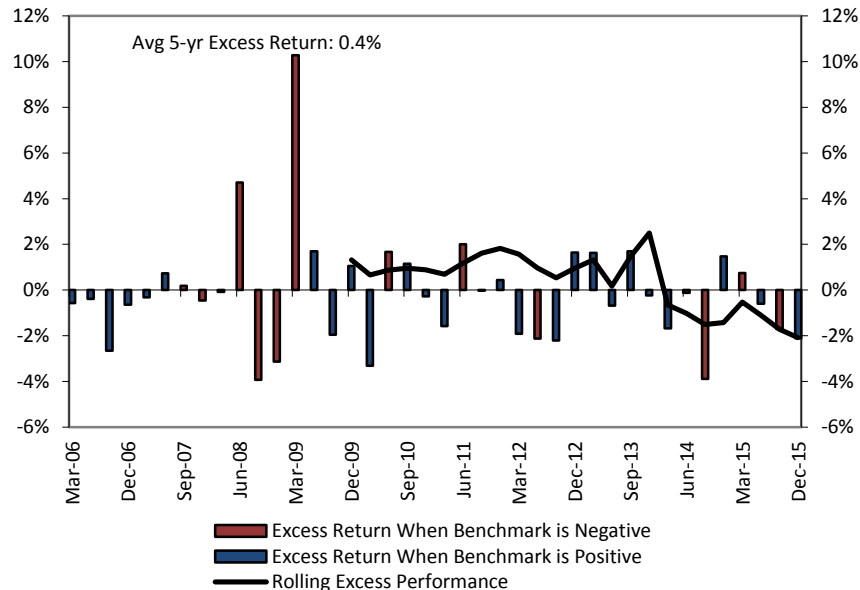


GAMCO ASSET MANAGEMENT – GABELLI LARGE CAP VALUE

Three-Year Rolling/Quarterly Excess Performance vs. Russell 1000 Value Index



Five-Year Rolling/Quarterly Excess Performance vs. Russell 1000 Value Index



Statistical Summary

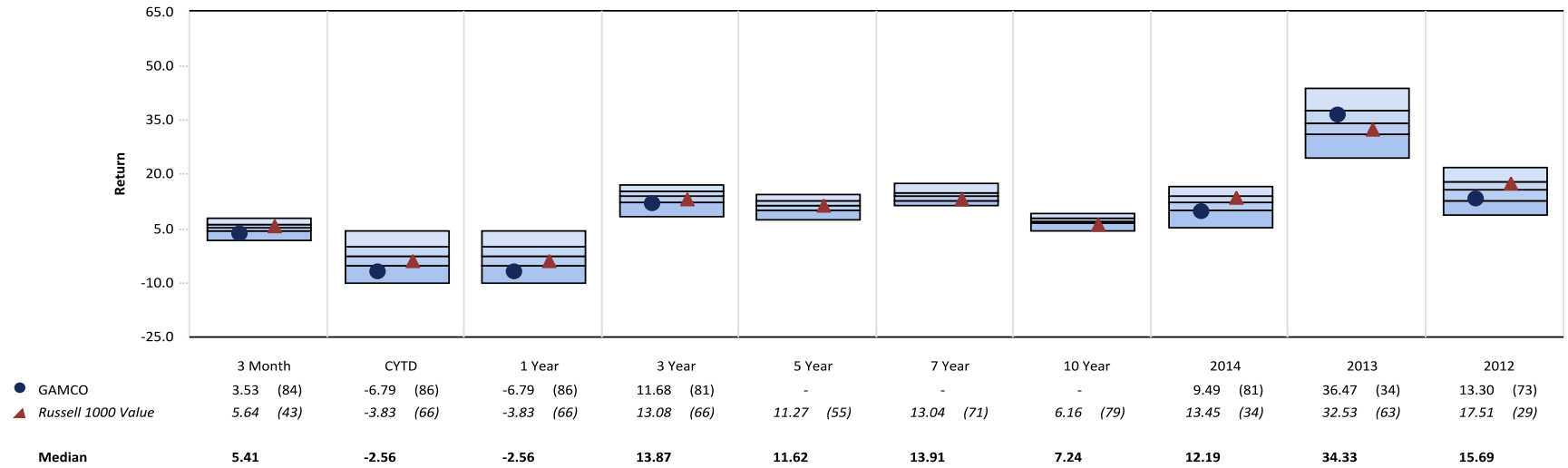
	As of 12/31/15	GAMCO	Russell 1000 Value
3 Year Performance:			
Annualized Return		10.9%	13.1%
Annualized St. Dev		12.6%	10.7%
Sharpe Ratio		0.86	1.22
Tracking Error		3.4%	0.0%
Info Ratio		-0.64	0.00
Batting Average		33.3%	0.0%
Up Market Capture		98.2%	100.0%
Down Market Capture		147.7%	100.0%
5 Year Performance:			
Annualized Return		9.2%	11.3%
Annualized St. Dev		14.6%	13.9%
Sharpe Ratio		0.63	0.81
Tracking Error		3.3%	0.0%
Info Ratio		-0.62	0.00
Batting Average		35.0%	0.0%
Up Market Capture		94.5%	100.0%
Down Market Capture		115.7%	100.0%
7 Year Performance:			
Annualized Return		13.4%	13.0%
Annualized St. Dev		16.3%	17.4%
Sharpe Ratio		0.81	0.74
Tracking Error		5.2%	0.0%
Info Ratio		0.08	0.00
Batting Average		42.9%	0.0%
Up Market Capture		95.5%	100.0%
Down Market Capture		88.1%	100.0%
10 Year Performance:			
Annualized Return		5.6%	6.2%
Annualized St. Dev		17.5%	17.7%
Sharpe Ratio		0.24	0.27
Tracking Error		5.0%	0.0%
Info Ratio		-0.11	0.00
Batting Average		37.5%	0.0%
Up Market Capture		93.9%	100.0%
Down Market Capture		96.8%	100.0%

City of Jacksonville Police & Fire Pension Fund

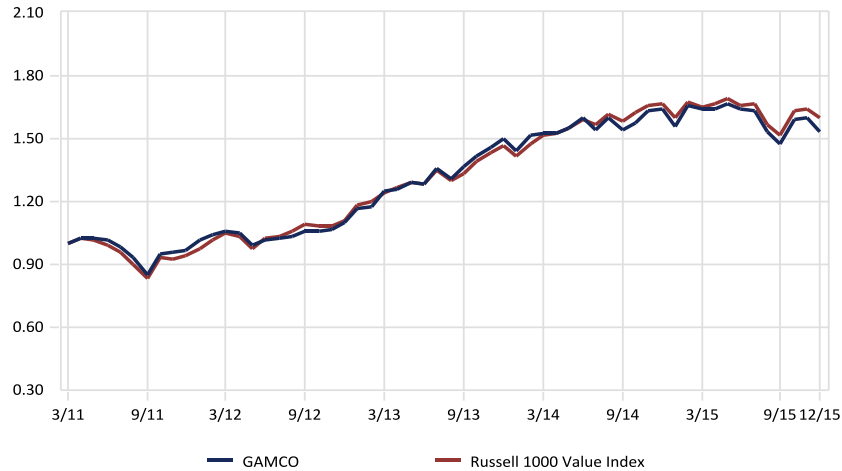
GAMCO

December 31, 2015

Peer Group Analysis - IM U.S. Large Cap Value Equity (SA+CF)

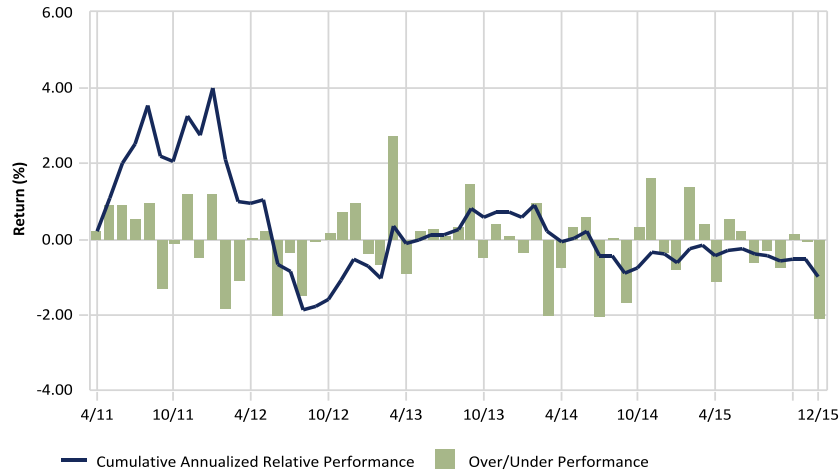


Growth of \$1 - Since Inception (04/01/11)



gross of fees

Relative Performance vs. Russell 1000 Value Index



City of Jacksonville Police & Fire Pension Fund

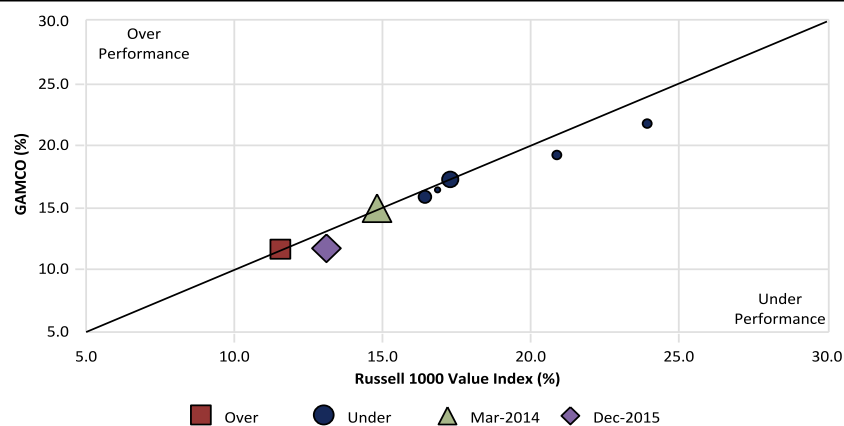
GAMCO

December 31, 2015

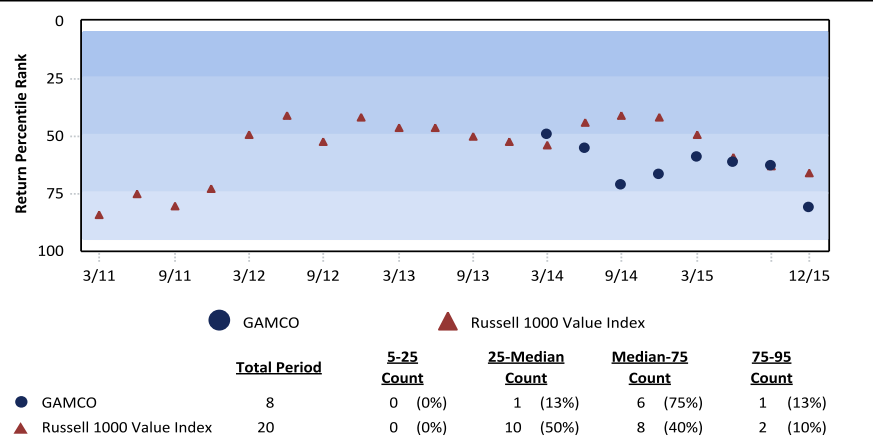
3 Year Portfolio Statistics

	Simple Alpha	Alpha	Beta	R-Squared	Tracking Error	Information Ratio	Sharpe Ratio	Consistency	Up Capture	Down Capture	Actual Correlation
GAMCO	-1.41	-2.63	1.12	0.93	3.56	-0.30	0.95	52.78	105.15	122.13	0.96
Russell 1000 Value Index	0.00	0.00	1.00	1.00	0.00	-	1.20	0.00	100.00	100.00	1.00
90 Day US Treasury Bill	-13.04	0.05	0.00	0.15	10.69	-1.20	-	30.56	0.03	-0.31	-0.39

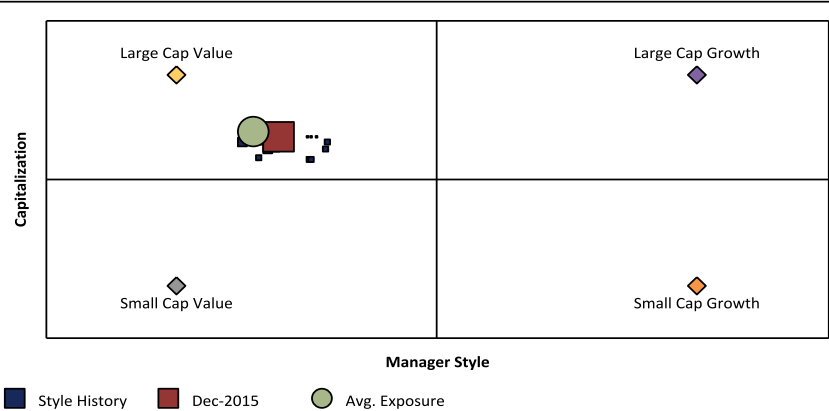
3 Year Rolling Under/Over Performance



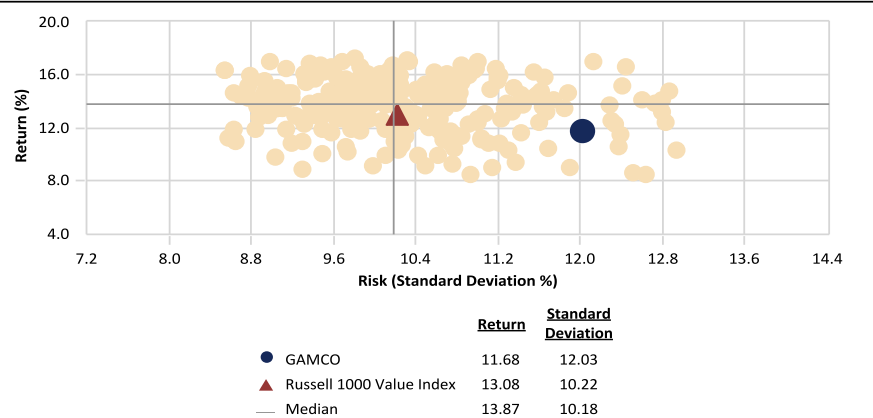
3 Year Rolling Relative Ranking



3 Year Style Analysis

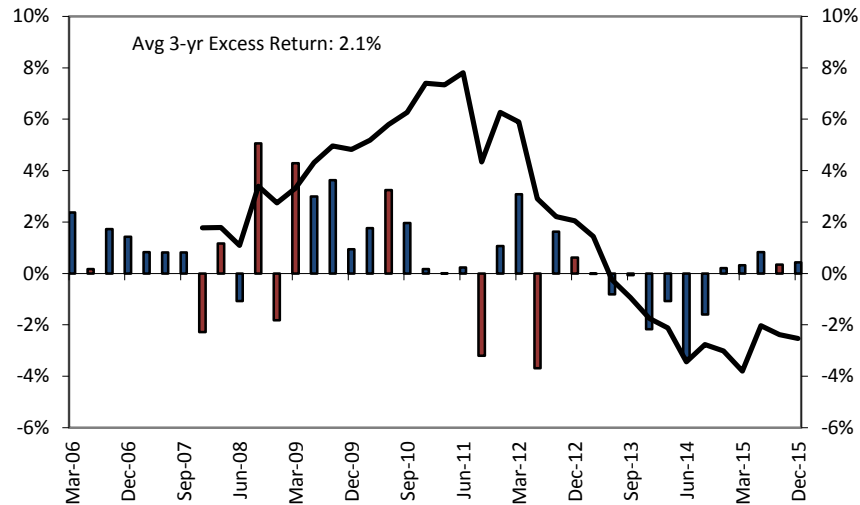


Risk vs. Return (01/01/13 - 12/31/15)

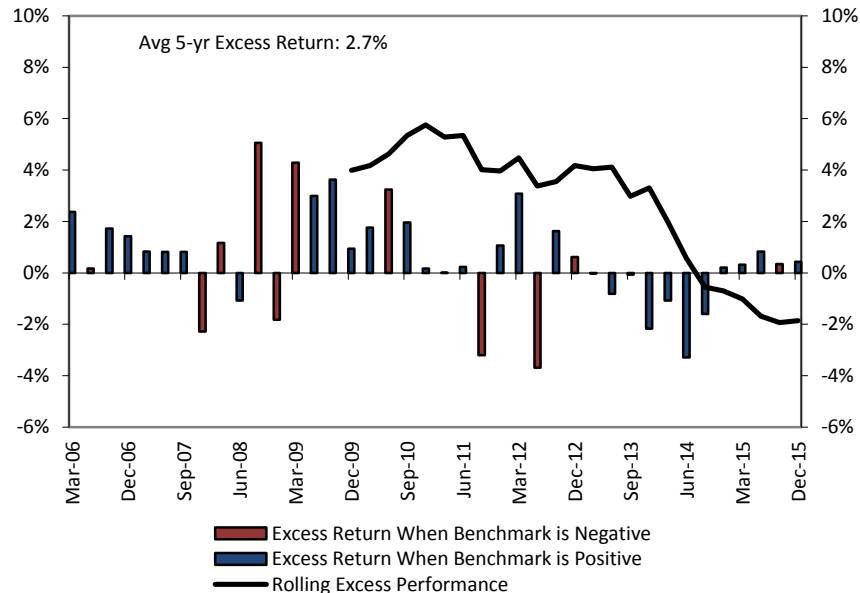


BROWN ADVISORY – LARGE CAP GROWTH

Three-Year Rolling/Quarterly Excess Performance vs. Russell 1000 Growth Index



Five-Year Rolling/Quarterly Excess Performance vs. Russell 1000 Growth Index



Statistical Summary

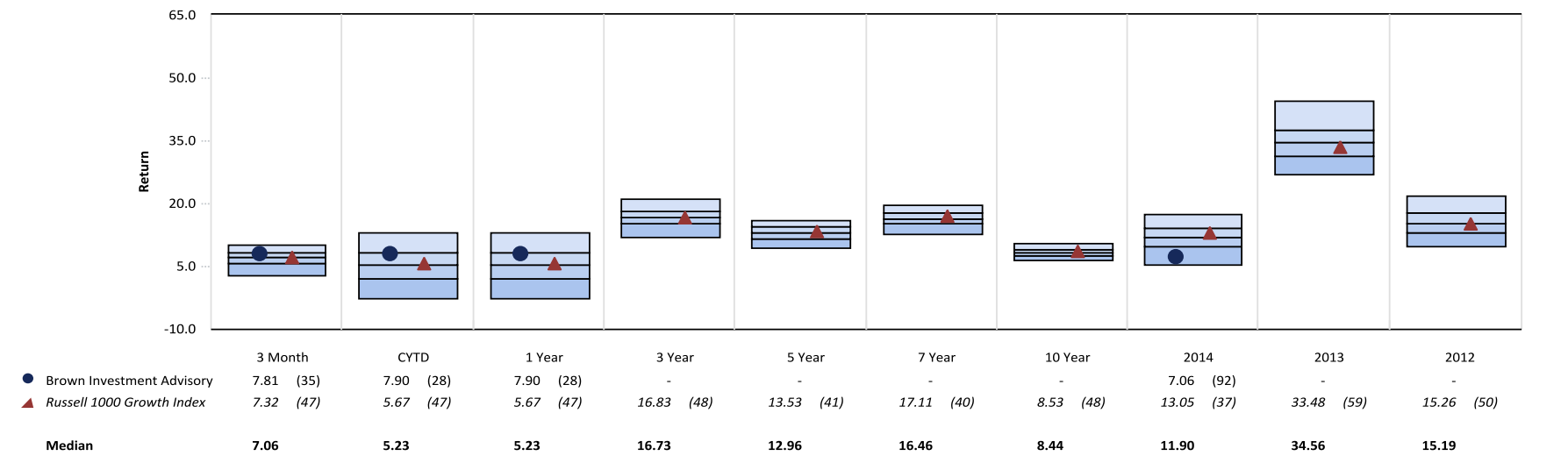
	As of 12/31/15	Brown	Russell 1000 Growth
3 Year Performance:			
Annualized Return		14.3%	16.8%
Annualized St. Dev		8.8%	9.0%
Sharpe Ratio		1.63	1.87
Tracking Error		2.5%	0.0%
Info Ratio		-1.01	0.00
Batting Average		41.7%	0.0%
Up Market Capture		85.6%	100.0%
Down Market Capture		94.0%	100.0%
5 Year Performance:			
Annualized Return		11.7%	13.5%
Annualized St. Dev		14.8%	12.8%
Sharpe Ratio		0.78	1.05
Tracking Error		3.4%	0.0%
Info Ratio		-0.54	0.00
Batting Average		55.0%	0.0%
Up Market Capture		98.0%	100.0%
Down Market Capture		122.8%	100.0%
7 Year Performance:			
Annualized Return		18.8%	17.1%
Annualized St. Dev		16.6%	14.9%
Sharpe Ratio		1.12	1.13
Tracking Error		4.1%	0.0%
Info Ratio		0.41	0.00
Batting Average		67.9%	0.0%
Up Market Capture		106.5%	100.0%
Down Market Capture		97.3%	100.0%
10 Year Performance:			
Annualized Return		10.6%	8.5%
Annualized St. Dev		17.8%	16.7%
Sharpe Ratio		0.52	0.43
Tracking Error		4.0%	0.0%
Info Ratio		0.51	0.00
Batting Average		70.0%	0.0%
Up Market Capture		109.6%	100.0%
Down Market Capture		96.8%	100.0%

City of Jacksonville Police & Fire Pension Fund

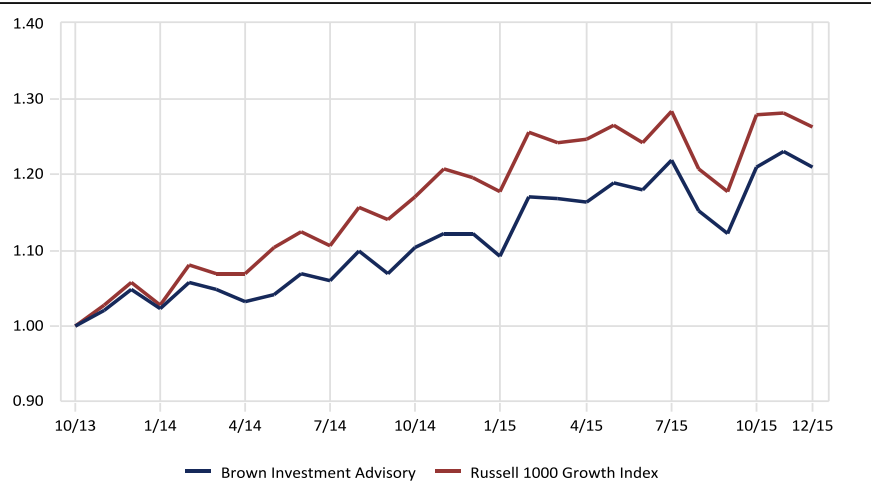
Brown Investment Advisory

December 31, 2015

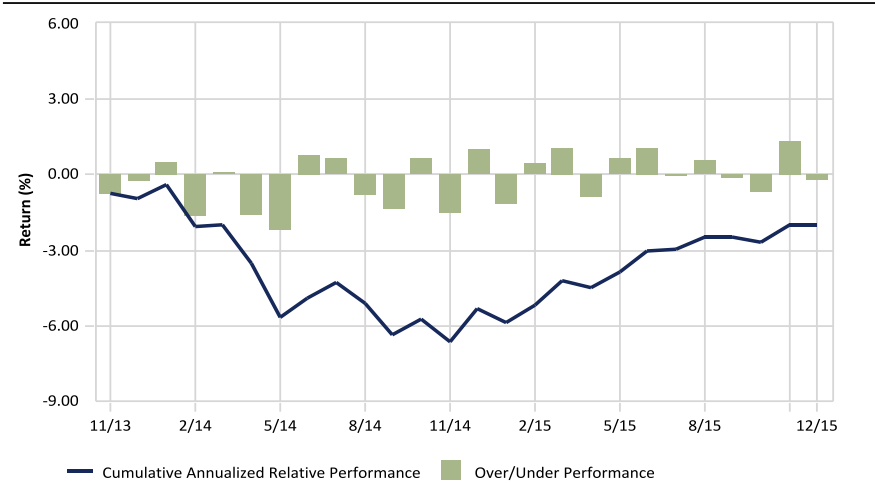
Peer Group Analysis - IM U.S. Large Cap Growth Equity (SA+CF)



Growth of \$1 - Since Inception (11/01/13)

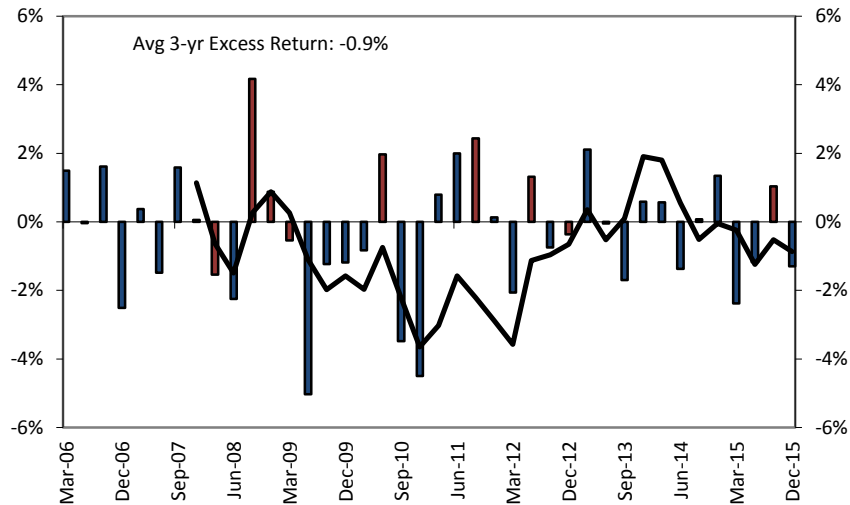


Relative Performance vs. Russell 1000 Growth Index

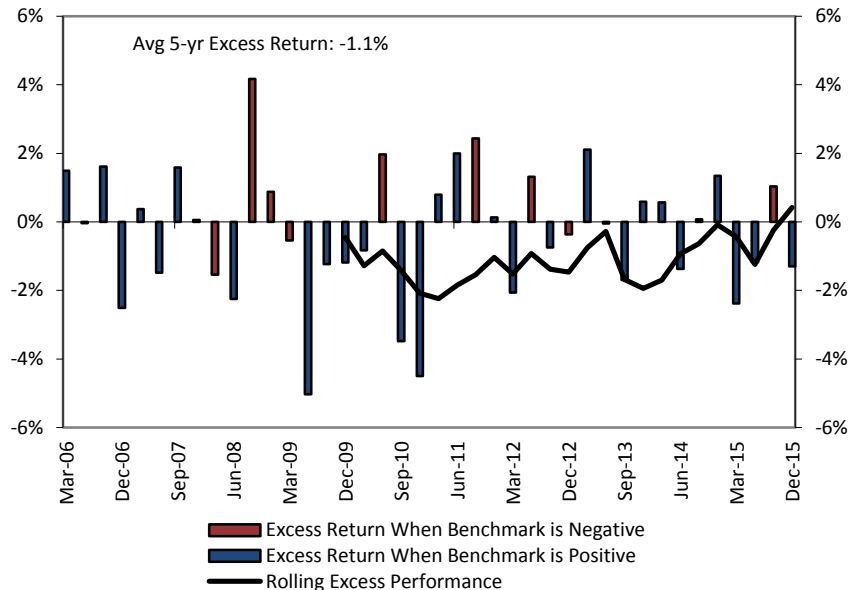


SAWGRASS ASSET MANAGEMENT – DIVERSIFIED LARGE GROWTH EQUITY

Three-Year Rolling/Quarterly Excess Performance vs. Russell 1000 Growth Index



Five-Year Rolling/Quarterly Excess Performance vs. Russell 1000 Growth Index



Statistical Summary

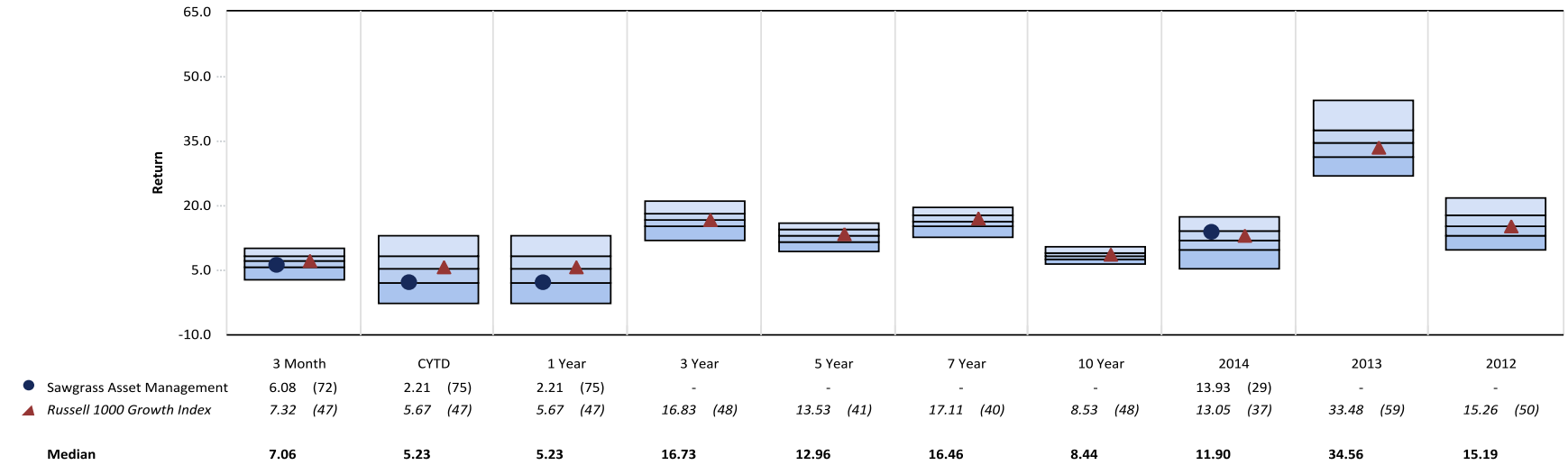
	As of 12/31/15	Sawgrass	Russell 1000 Growth
3 Year Performance:			
Annualized Return		16.0%	16.8%
Annualized St. Dev		9.3%	9.0%
Sharpe Ratio		1.71	1.87
Tracking Error		2.8%	0.0%
Info Ratio		-0.31	0.00
Batting Average		50.0%	0.0%
Up Market Capture		93.1%	100.0%
Down Market Capture		81.7%	100.0%
5 Year Performance:			
Annualized Return		14.0%	13.5%
Annualized St. Dev		11.8%	12.8%
Sharpe Ratio		1.18	1.05
Tracking Error		2.9%	0.0%
Info Ratio		0.15	0.00
Batting Average		55.0%	0.0%
Up Market Capture		96.2%	100.0%
Down Market Capture		82.5%	100.0%
7 Year Performance:			
Annualized Return		15.3%	17.1%
Annualized St. Dev		12.8%	14.9%
Sharpe Ratio		1.18	1.13
Tracking Error		3.8%	0.0%
Info Ratio		-0.49	0.00
Batting Average		42.9%	0.0%
Up Market Capture		86.9%	100.0%
Down Market Capture		86.2%	100.0%
10 Year Performance:			
Annualized Return		7.6%	8.5%
Annualized St. Dev		14.9%	16.7%
Sharpe Ratio		0.42	0.43
Tracking Error		3.8%	0.0%
Info Ratio		-0.23	0.00
Batting Average		47.5%	0.0%
Up Market Capture		88.2%	100.0%
Down Market Capture		90.7%	100.0%

City of Jacksonville Police & Fire Pension Fund

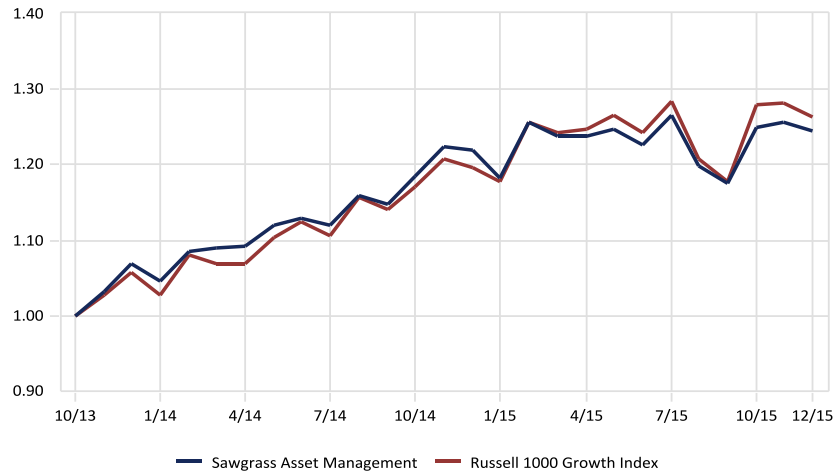
Sawgrass Asset Management

December 31, 2015

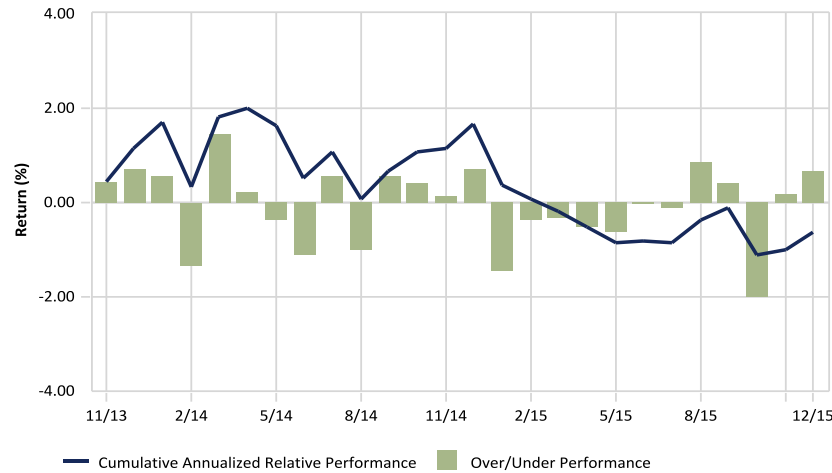
Peer Group Analysis - IM U.S. Large Cap Growth Equity (SA+CF)



Growth of \$1 - Since Inception (11/01/13)



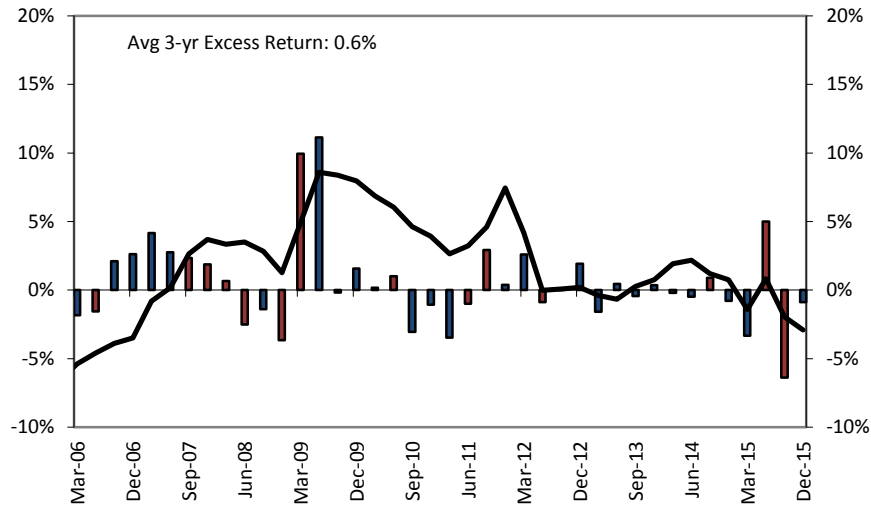
Relative Performance vs. Russell 1000 Growth Index



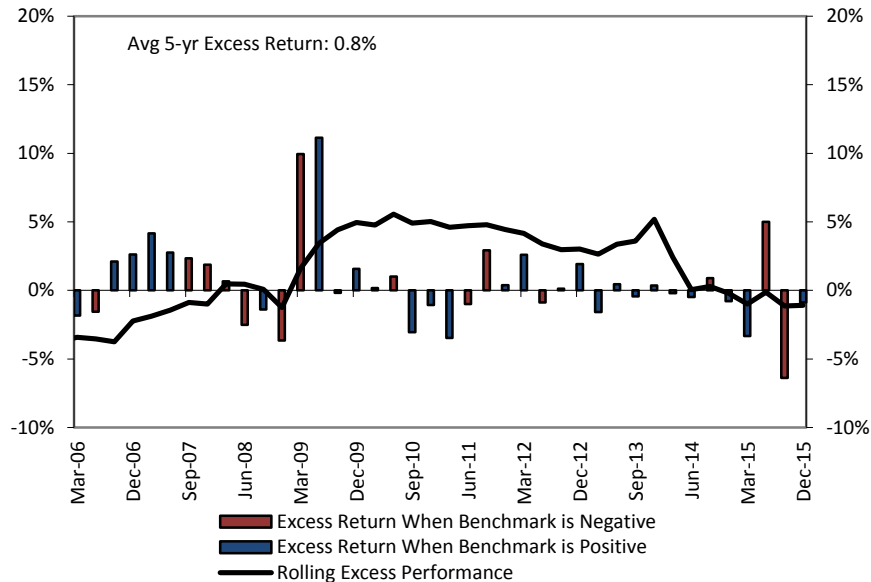
gross of fees

DEPRINCE, RACE & ZOLLO – SMALL CAP VALUE

Three-Year Rolling/Quarterly Excess Performance vs. Russell 2000 Value Index



Five-Year Rolling/Quarterly Excess Performance vs. Russell 2000 Value Index



Statistical Summary

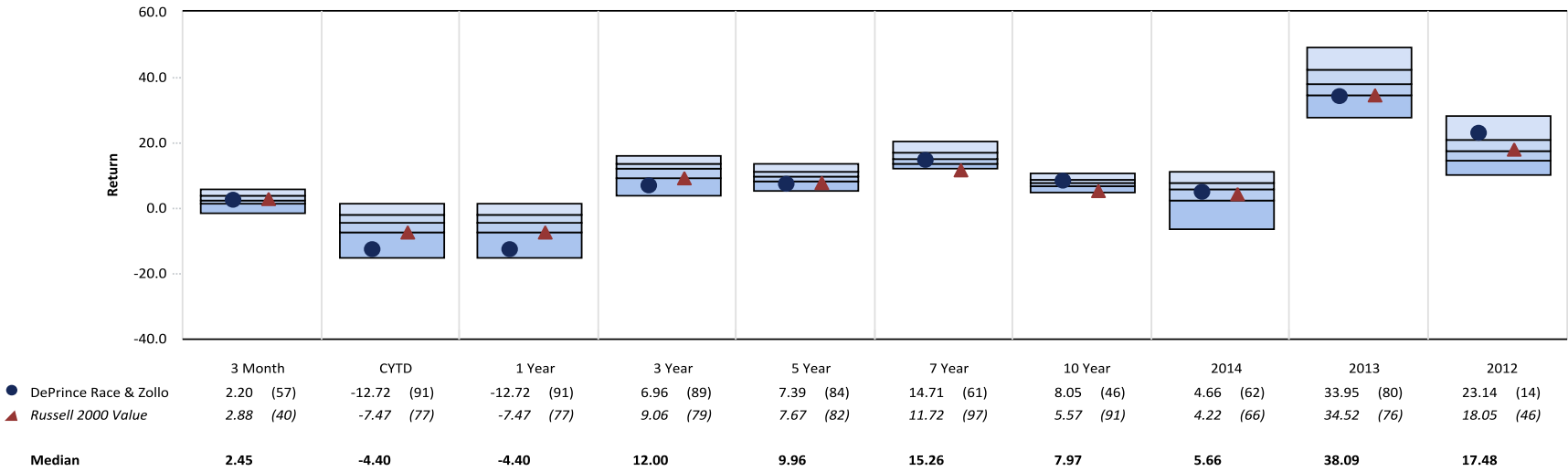
	As of 12/31/15	DRZ	Russell 2000 Value
3 Year Performance:			
Annualized Return	6.1%	6.1%	9.1%
Annualized St. Dev	15.6%	15.6%	13.7%
Sharpe Ratio	0.39	0.39	0.66
Tracking Error	5.3%	5.3%	0.0%
Info Ratio	-0.55	-0.55	0.00
Batting Average	33.3%	33.3%	0.0%
Up Market Capture	84.8%	84.8%	100.0%
Down Market Capture	106.0%	106.0%	100.0%
5 Year Performance:			
Annualized Return	6.6%	6.6%	7.7%
Annualized St. Dev	18.0%	18.0%	17.4%
Sharpe Ratio	0.36	0.36	0.44
Tracking Error	4.9%	4.9%	0.0%
Info Ratio	-0.22	-0.22	0.00
Batting Average	45.0%	45.0%	0.0%
Up Market Capture	93.2%	93.2%	100.0%
Down Market Capture	99.7%	99.7%	100.0%
7 Year Performance:			
Annualized Return	14.1%	14.1%	11.7%
Annualized St. Dev	21.5%	21.5%	21.1%
Sharpe Ratio	0.65	0.65	0.55
Tracking Error	7.1%	7.1%	0.0%
Info Ratio	0.33	0.33	0.00
Batting Average	50.0%	50.0%	0.0%
Up Market Capture	101.1%	101.1%	100.0%
Down Market Capture	87.2%	87.2%	100.0%
10 Year Performance:			
Annualized Return	7.5%	7.5%	5.6%
Annualized St. Dev	21.8%	21.8%	20.9%
Sharpe Ratio	0.29	0.29	0.20
Tracking Error	6.5%	6.5%	0.0%
Info Ratio	0.30	0.30	0.00
Batting Average	52.5%	52.5%	0.0%
Up Market Capture	105.8%	105.8%	100.0%
Down Market Capture	94.8%	94.8%	100.0%

City of Jacksonville Police & Fire Pension Fund

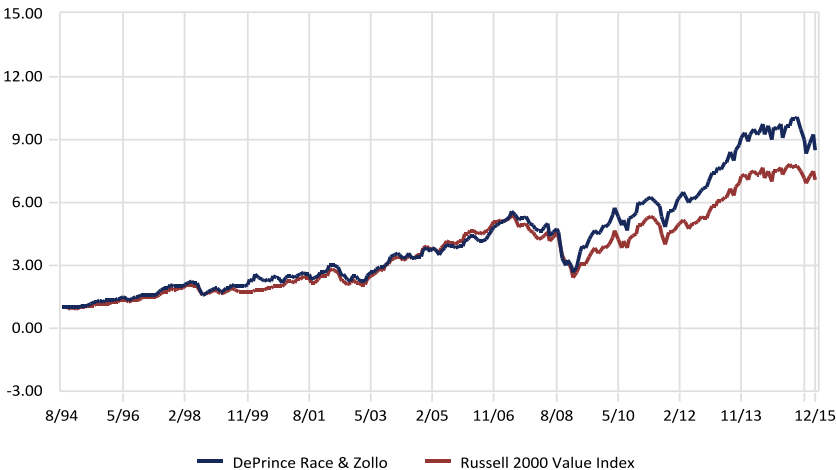
DePrince Race & Zollo

December 31, 2015

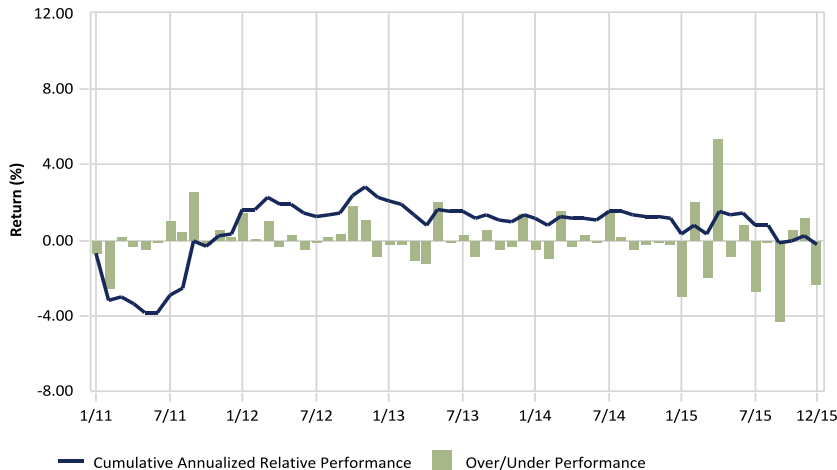
Peer Group Analysis - IM U.S. Small Cap Value Equity (SA+CF)



Growth of \$1 - Since Inception (09/01/94)



Relative Performance vs. Russell 2000 Value Index



gross of fees

City of Jacksonville Police & Fire Pension Fund

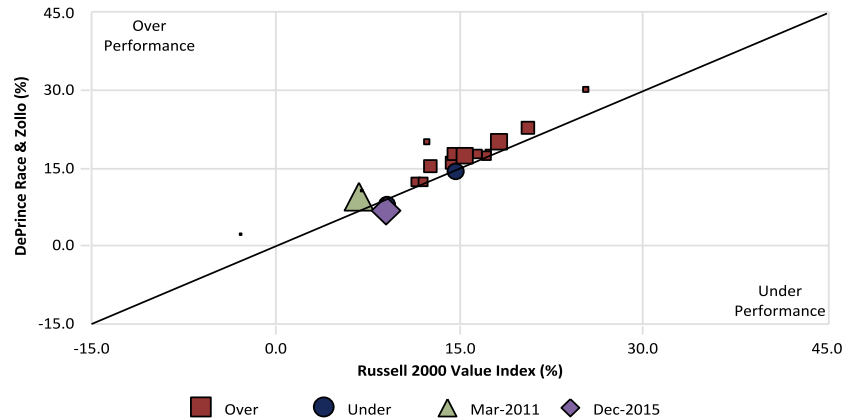
DePrince Race & Zollo

December 31, 2015

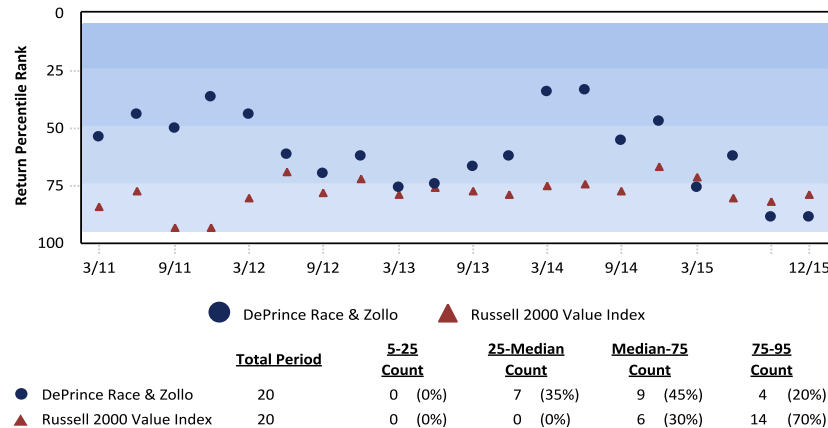
3 Year Portfolio Statistics

	Simple Alpha	Alpha	Beta	R-Squared	Tracking Error	Information Ratio	Sharpe Ratio	Consistency	Up Capture	Down Capture	Actual Correlation
DePrince Race & Zollo	-2.11	-2.50	1.09	0.88	5.56	-0.29	0.51	36.11	105.10	118.53	0.94
Russell 2000 Value Index	0.00	0.00	1.00	1.00	0.00	-	0.71	0.00	100.00	100.00	1.00
90 Day US Treasury Bill	-9.02	0.05	0.00	0.15	13.47	-0.71	-	38.89	0.02	-0.22	-0.39

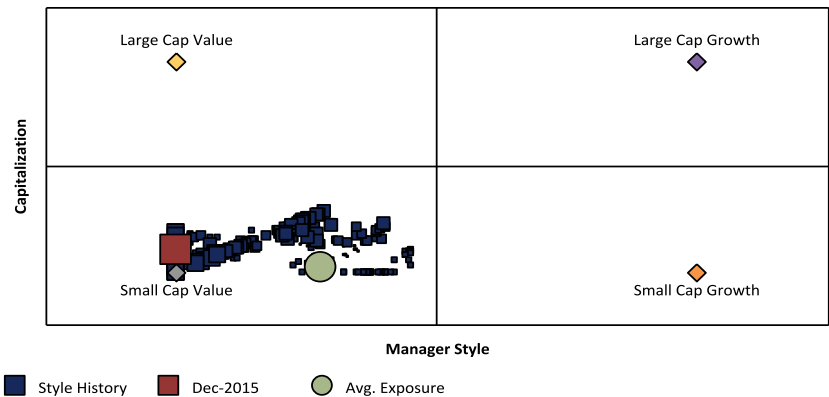
3 Year Rolling Under/Over Performance



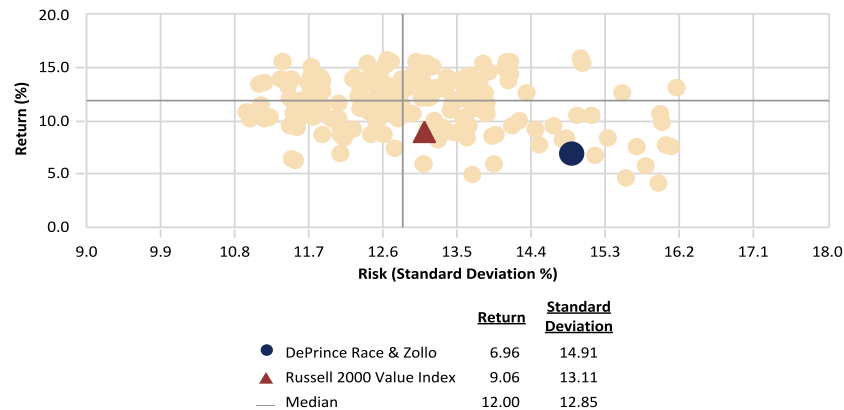
3 Year Rolling Relative Ranking



3 Year Style Analysis

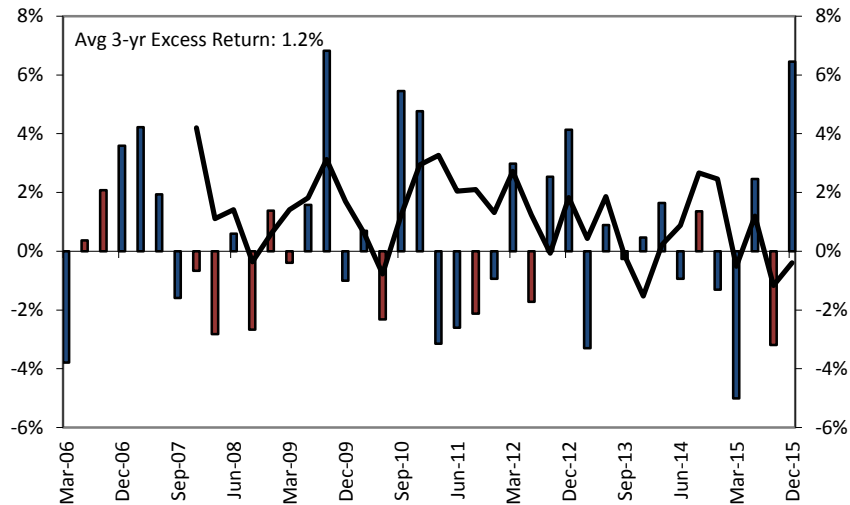


Risk vs. Return (01/01/13 - 12/31/15)

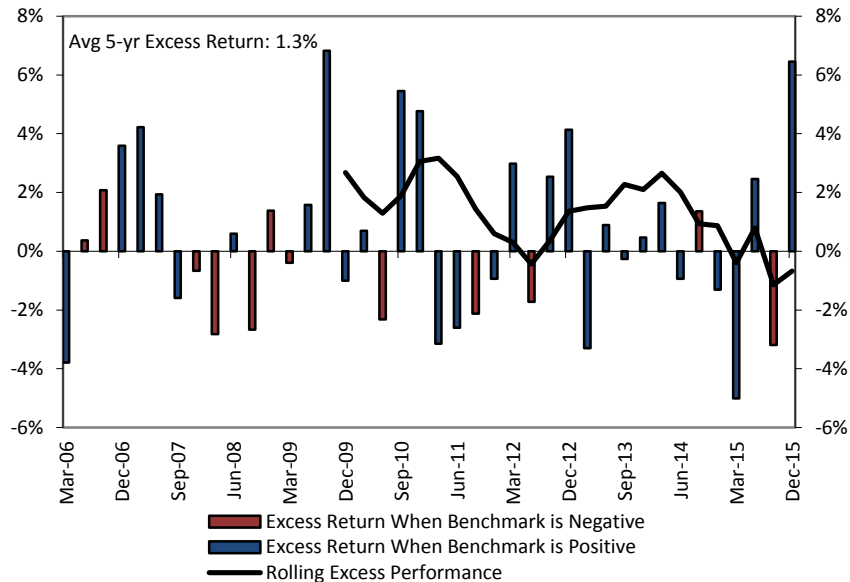


PINNACLE ASSOCIATES – SMALL MID CAP EQUITY

Three-Year Rolling/Quarterly Excess Performance vs. Russell 2500 Growth Index



Five-Year Rolling/Quarterly Excess Performance vs. Russell 2500 Growth Index



Statistical Summary

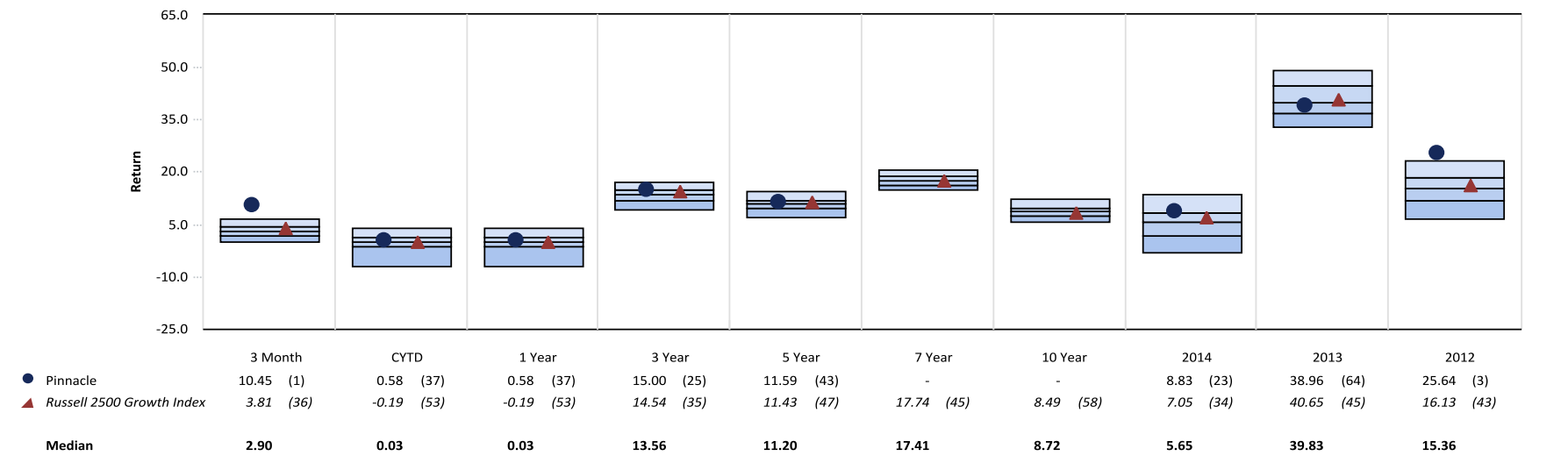
	As of 12/31/15	Pinnacle	Russell 2500 Growth
3 Year Performance:			
Annualized Return		14.2%	14.5%
Annualized St. Dev		14.0%	13.3%
Sharpe Ratio		1.01	1.09
Tracking Error		6.1%	0.0%
Info Ratio		-0.06	0.00
Batting Average		50.0%	0.0%
Up Market Capture		102.4%	100.0%
Down Market Capture		111.6%	100.0%
5 Year Performance:			
Annualized Return		10.8%	11.4%
Annualized St. Dev		19.0%	17.5%
Sharpe Ratio		0.56	0.65
Tracking Error		5.8%	0.0%
Info Ratio		-0.12	0.00
Batting Average		45.0%	0.0%
Up Market Capture		104.3%	100.0%
Down Market Capture		111.4%	100.0%
7 Year Performance:			
Annualized Return		19.3%	17.7%
Annualized St. Dev		22.3%	19.2%
Sharpe Ratio		0.86	0.91
Tracking Error		6.2%	0.0%
Info Ratio		0.25	0.00
Batting Average		50.0%	0.0%
Up Market Capture		112.9%	100.0%
Down Market Capture		112.4%	100.0%
10 Year Performance:			
Annualized Return		9.7%	8.5%
Annualized St. Dev		23.2%	20.7%
Sharpe Ratio		0.36	0.34
Tracking Error		5.9%	0.0%
Info Ratio		0.21	0.00
Batting Average		52.5%	0.0%
Up Market Capture		113.3%	100.0%
Down Market Capture		107.6%	100.0%

City of Jacksonville Police & Fire Pension Fund

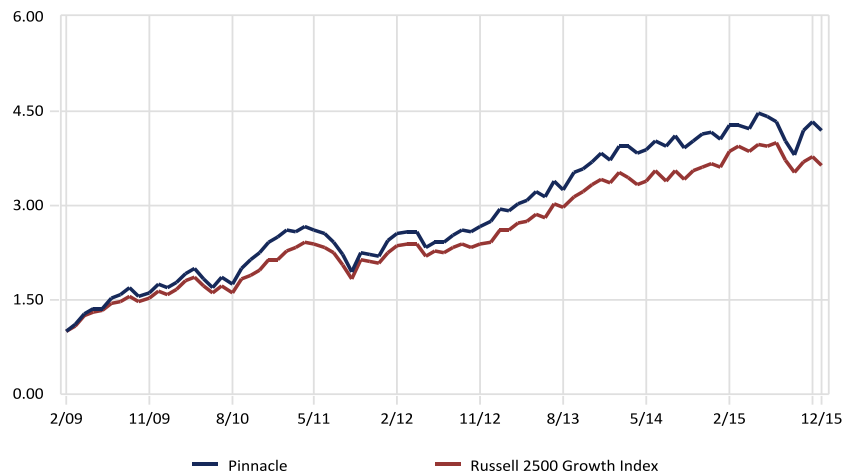
Pinnacle

December 31, 2015

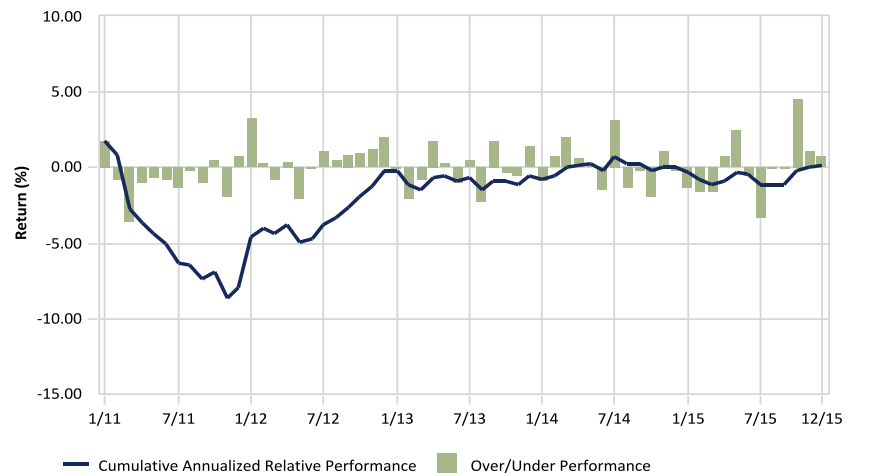
Peer Group Analysis - IM U.S. SMID Cap Growth Equity (SA+CF)



Growth of \$1 - Since Inception (03/01/09)



Relative Performance vs. Russell 2500 Growth Index



gross of fees

City of Jacksonville Police & Fire Pension Fund

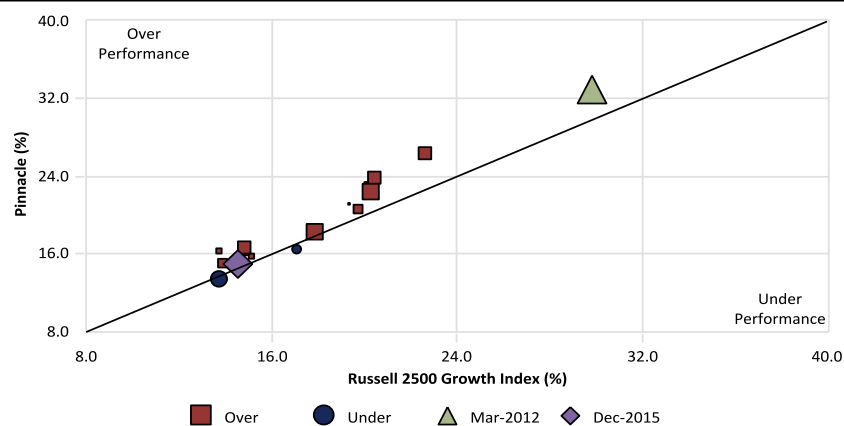
Pinnacle

December 31, 2015

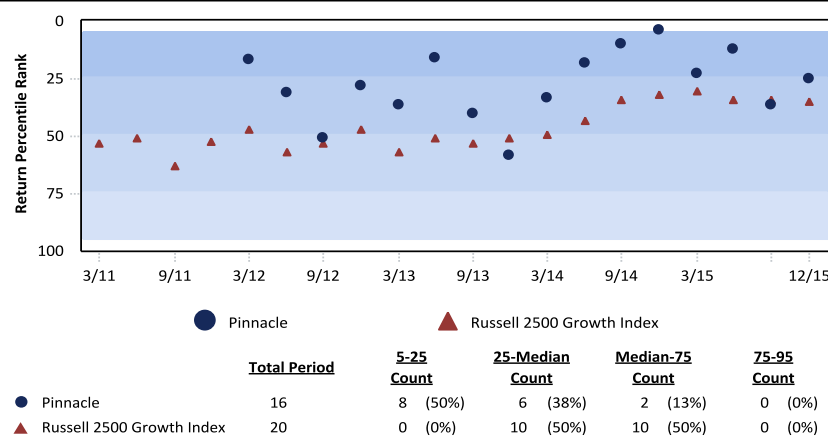
3 Year Portfolio Statistics

	Simple Alpha	Alpha	Beta	R-Squared	Tracking Error	Information Ratio	Sharpe Ratio	Consistency	Up Capture	Down Capture	Actual Correlation
Pinnacle	0.46	0.66	0.99	0.85	5.59	0.10	1.05	44.44	101.02	98.13	0.92
Russell 2500 Growth Index	0.00	0.00	1.00	1.00	0.00	-	1.09	0.00	100.00	100.00	1.00
90 Day US Treasury Bill	-14.50	0.05	0.00	0.16	13.30	-1.09	-	36.11	0.01	-0.28	-0.41

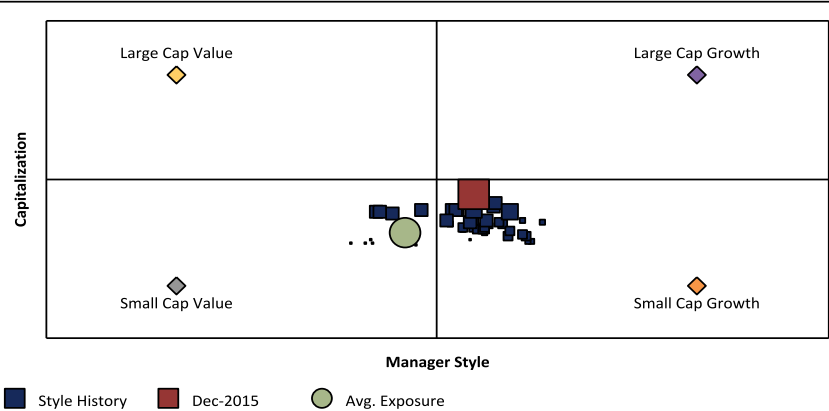
3 Year Rolling Under/Over Performance



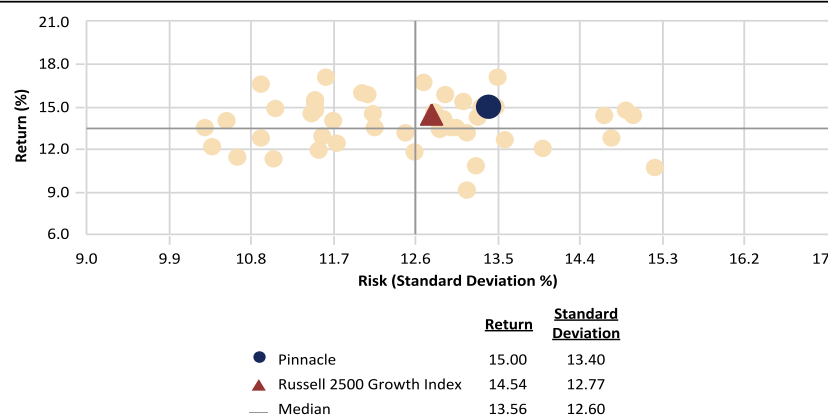
3 Year Rolling Relative Ranking



3 Year Style Analysis



Risk vs. Return (01/01/13 - 12/31/15)

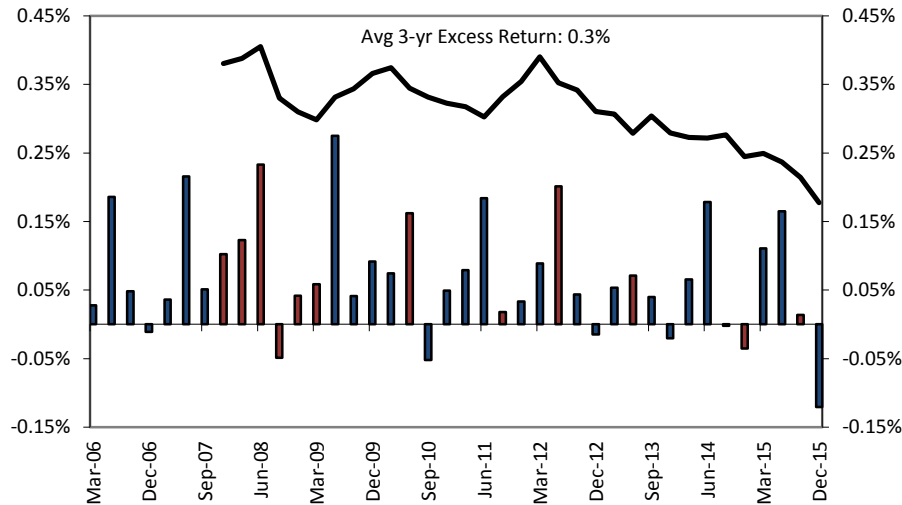


gross of fees

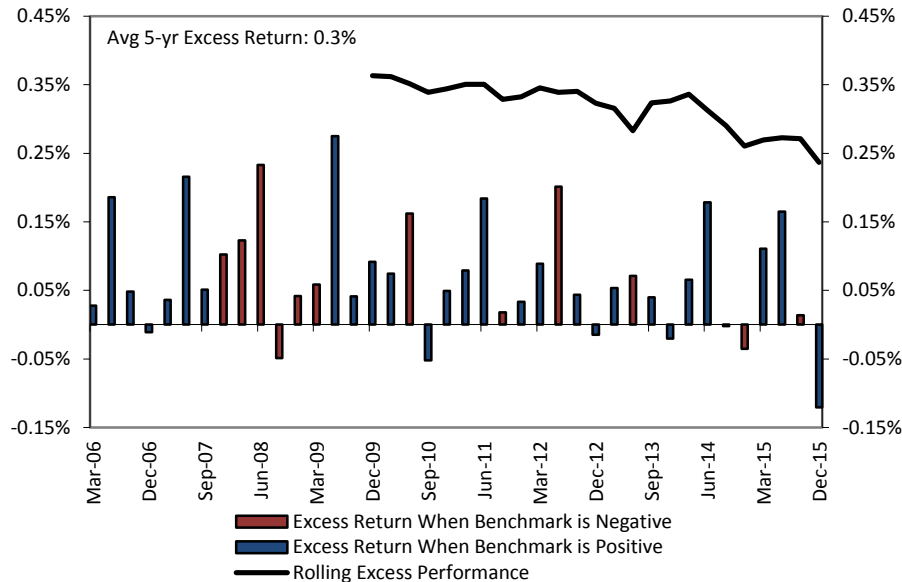
**INTERNATIONAL EQUITY
MANAGER PERFORMANCE REVIEW**

NORTHERN TRUST – NT EAFE INDEX EQUITY

Three-Year Rolling/Quarterly Excess Performance vs. MSCI EAFE Index



Five-Year Rolling/Quarterly Excess Performance vs. MSCI EAFE Index



Statistical Summary

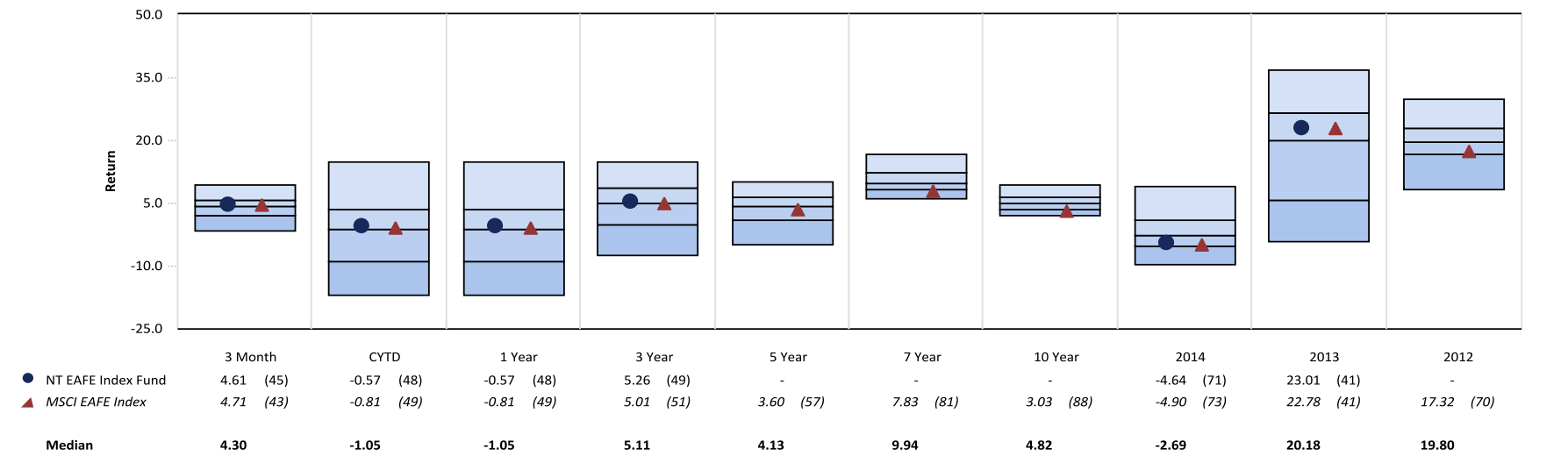
	As of 12/31/15	NT EAFE	MSCI EAFE-ND
3 Year Performance:			
Annualized Return		5.2%	5.0%
Annualized St. Dev		11.9%	11.8%
Sharpe Ratio		0.43	0.42
Tracking Error		0.2%	0.0%
Info Ratio		1.05	0.00
Batting Average		66.7%	0.0%
Up Market Capture		101.4%	100.0%
Down Market Capture		99.8%	100.0%
5 Year Performance:			
Annualized Return		3.8%	3.6%
Annualized St. Dev		14.7%	14.7%
Sharpe Ratio		0.26	0.24
Tracking Error		0.2%	0.0%
Info Ratio		1.45	0.00
Batting Average		75.0%	0.0%
Up Market Capture		101.4%	100.0%
Down Market Capture		99.5%	100.0%
7 Year Performance:			
Annualized Return		8.1%	7.8%
Annualized St. Dev		19.8%	19.8%
Sharpe Ratio		0.40	0.39
Tracking Error		0.2%	0.0%
Info Ratio		1.64	0.00
Batting Average		78.6%	0.0%
Up Market Capture		101.1%	100.0%
Down Market Capture		99.4%	100.0%
10 Year Performance:			
Annualized Return		3.3%	3.0%
Annualized St. Dev		20.0%	20.0%
Sharpe Ratio		0.10	0.08
Tracking Error		0.2%	0.0%
Info Ratio		1.69	0.00
Batting Average		80.0%	0.0%
Up Market Capture		101.2%	100.0%
Down Market Capture		99.4%	100.0%

City of Jacksonville Police & Fire Pension Fund

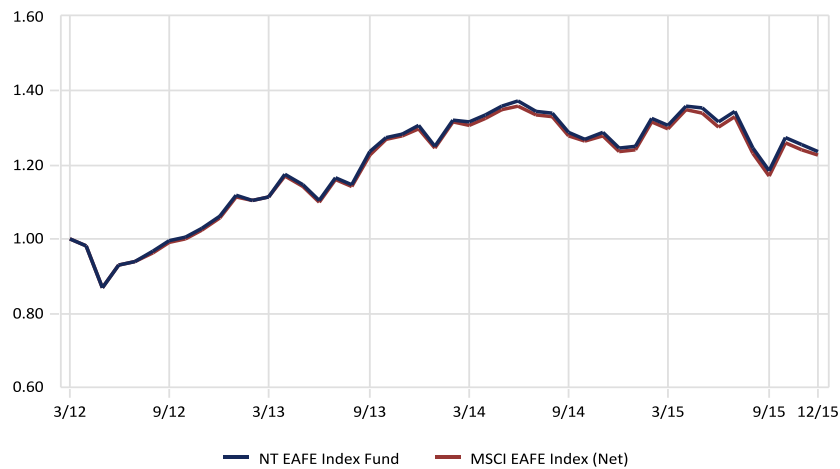
NT EAFE Index Fund

December 31, 2015

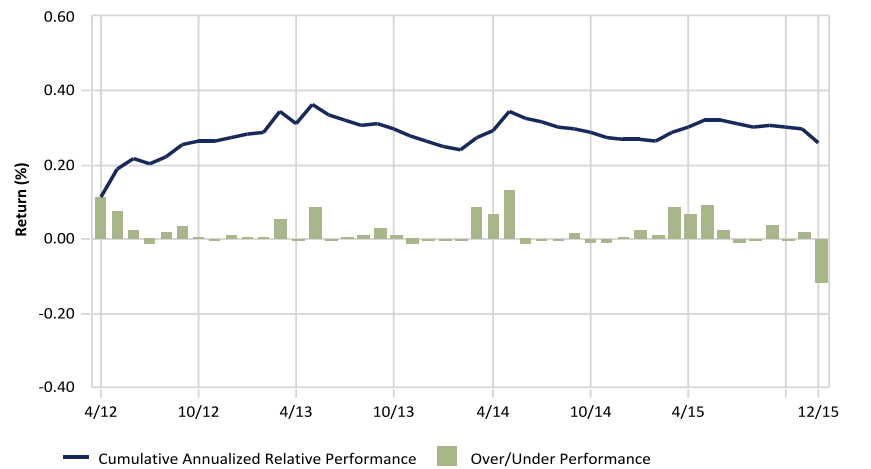
Peer Group Analysis - IM International Equity (SA+CF)



Growth of \$1 - Since Inception (04/01/12)



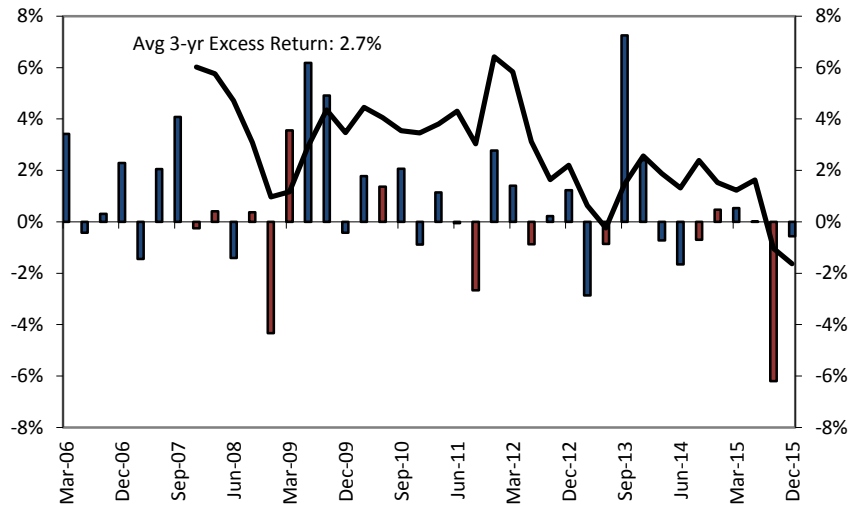
Relative Performance vs. MSCI EAFE Index (Net)



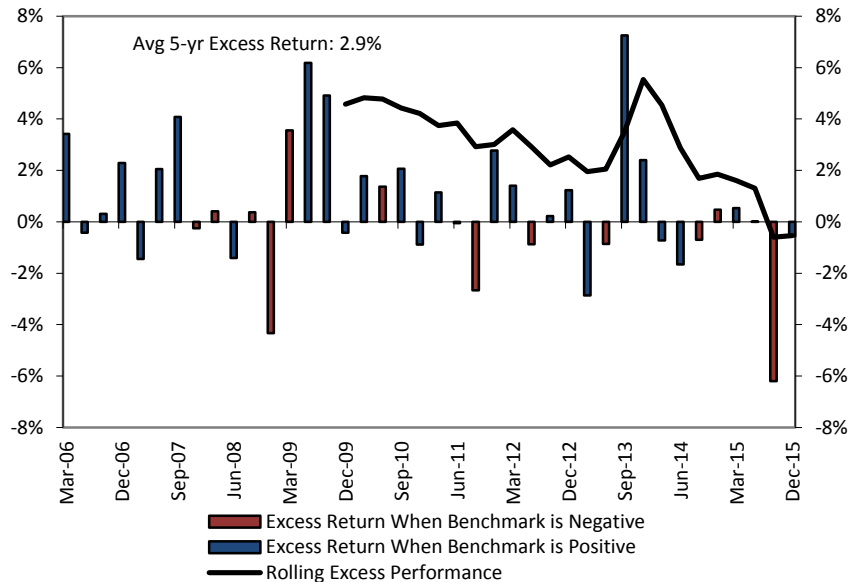
gross of fees

BAILLIE GIFFORD & CO. – EAFE PLUS ALPHA EQUITIES

Three-Year Rolling/Quarterly Excess Performance vs. MSCI EAFE Growth Index



Five-Year Rolling/Quarterly Excess Performance vs. MSCI EAFE Growth Index



Statistical Summary

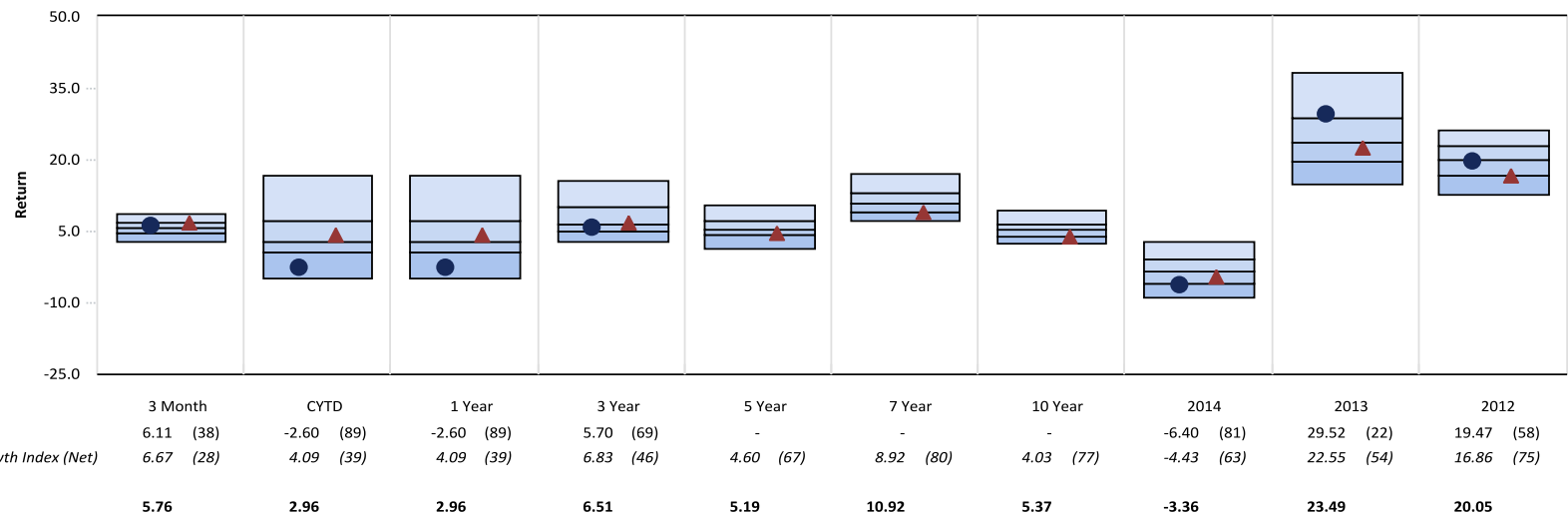
As of 12/31/15	Baillie Gifford	MSCI EAFE Growth-ND
3 Year Performance:		
Annualized Return	5.2%	6.8%
Annualized St. Dev	16.1%	11.3%
Sharpe Ratio	0.32	0.60
Tracking Error	6.3%	0.0%
Info Ratio	-0.26	0.00
Batting Average	41.7%	0.0%
Up Market Capture	110.3%	100.0%
Down Market Capture	138.9%	100.0%
5 Year Performance:		
Annualized Return	4.1%	4.6%
Annualized St. Dev	18.2%	14.5%
Sharpe Ratio	0.22	0.31
Tracking Error	5.2%	0.0%
Info Ratio	-0.10	0.00
Batting Average	50.0%	0.0%
Up Market Capture	115.9%	100.0%
Down Market Capture	121.7%	100.0%
7 Year Performance:		
Annualized Return	11.2%	8.9%
Annualized St. Dev	21.7%	18.3%
Sharpe Ratio	0.51	0.48
Tracking Error	5.5%	0.0%
Info Ratio	0.41	0.00
Batting Average	57.1%	0.0%
Up Market Capture	118.5%	100.0%
Down Market Capture	107.7%	100.0%
10 Year Performance:		
Annualized Return	5.9%	4.0%
Annualized St. Dev	22.4%	19.2%
Sharpe Ratio	0.20	0.14
Tracking Error	5.2%	0.0%
Info Ratio	0.35	0.00
Batting Average	57.5%	0.0%
Up Market Capture	119.9%	100.0%
Down Market Capture	107.2%	100.0%

City of Jacksonville Police & Fire Pension Fund

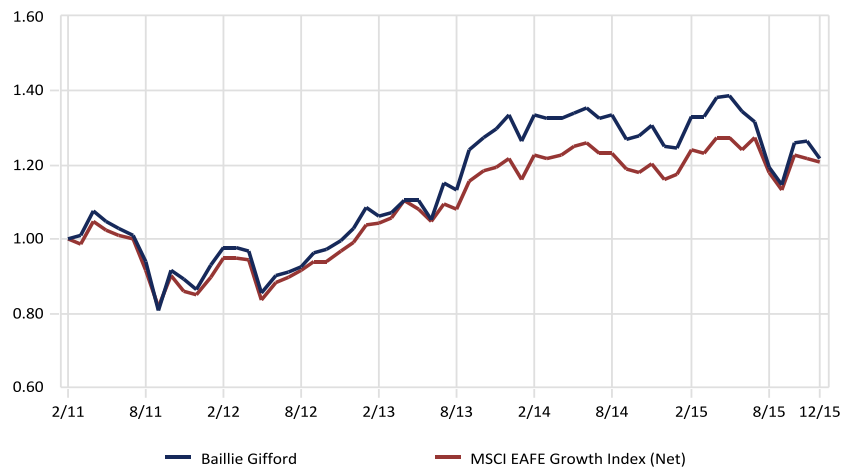
Baillie Gifford

December 31, 2015

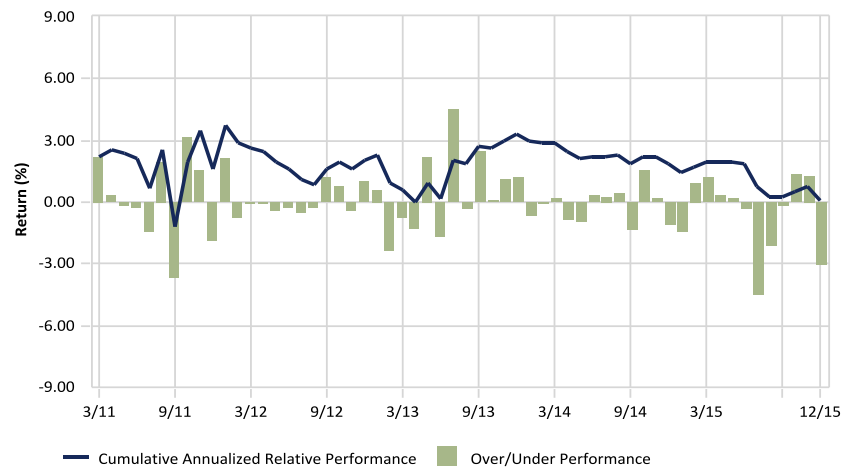
Peer Group Analysis - IM International Growth Equity (SA+CF)



Growth of \$1 - Since Inception (03/01/11)



Relative Performance vs. MSCI EAFE Growth Index (Net)



City of Jacksonville Police & Fire Pension Fund

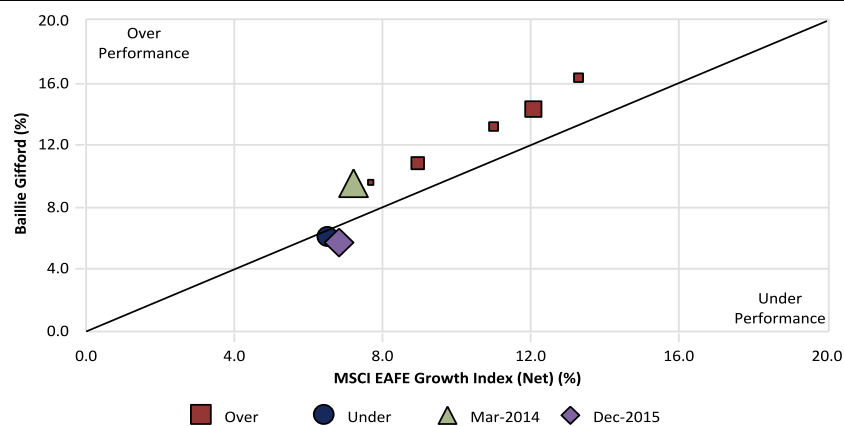
Baillie Gifford

December 31, 2015

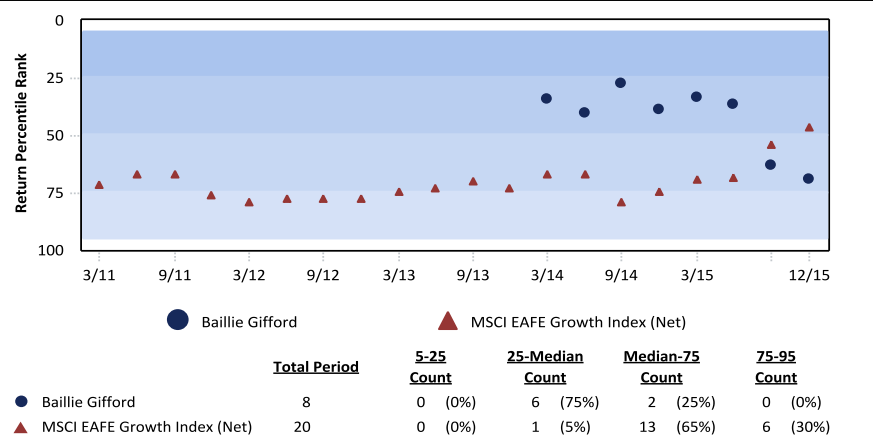
3 Year Portfolio Statistics

	Simple Alpha	Alpha	Beta	R-Squared	Tracking Error	Information Ratio	Sharpe Ratio	Consistency	Up Capture	Down Capture	Actual Correlation
Baillie Gifford	-1.13	-1.89	1.17	0.87	5.72	-0.12	0.45	52.78	102.72	109.62	0.93
MSCI EAFE Growth Index (Net)	0.00	0.00	1.00	1.00	0.00	-	0.62	0.00	100.00	100.00	1.00
90 Day US Treasury Bill	-6.79	0.05	0.00	0.11	11.77	-0.62	-	44.44	0.06	-0.22	-0.33

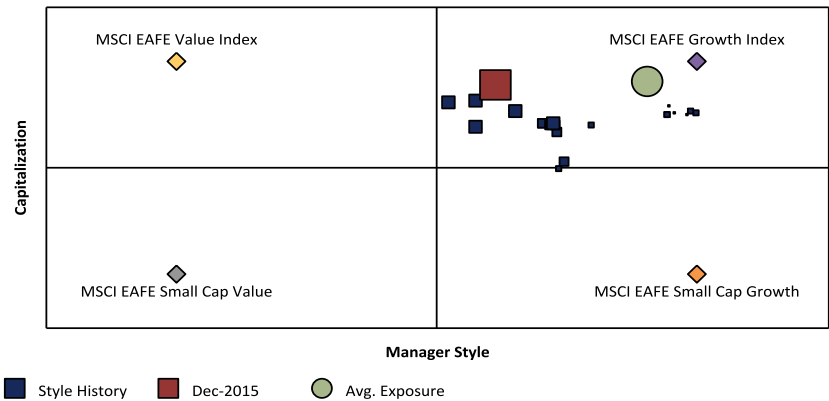
3 Year Rolling Under/Over Performance



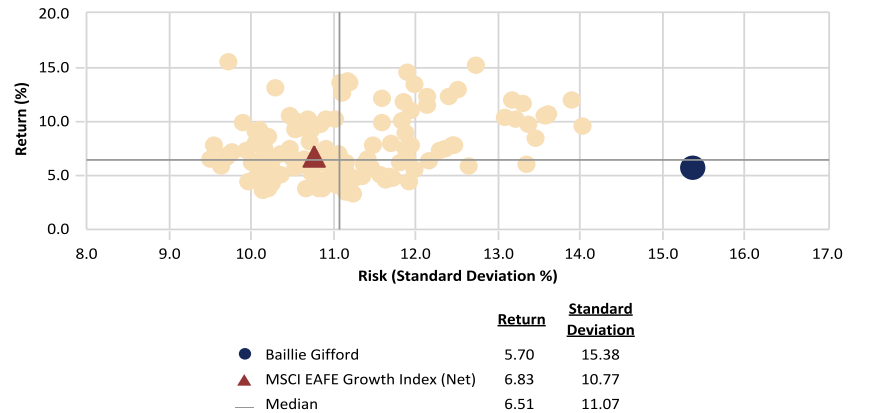
3 Year Rolling Relative Ranking



3 Year Style Analysis

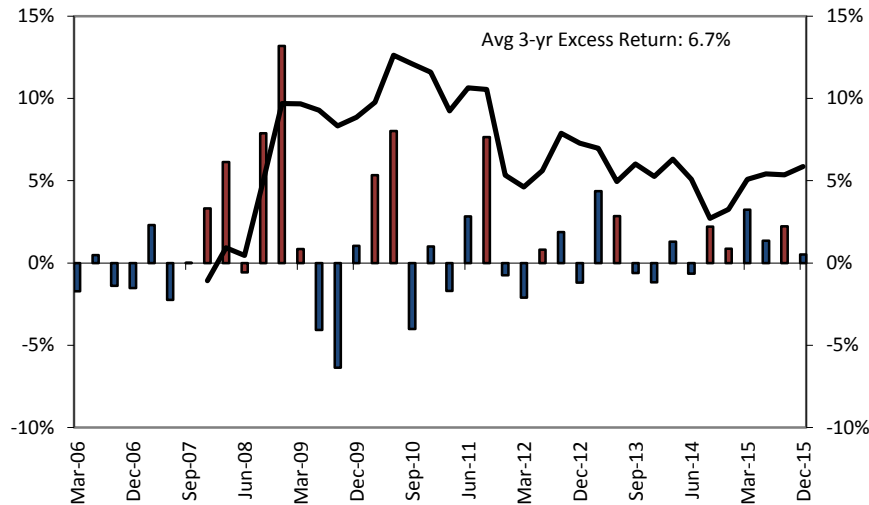


Risk vs. Return (01/01/13 - 12/31/15)

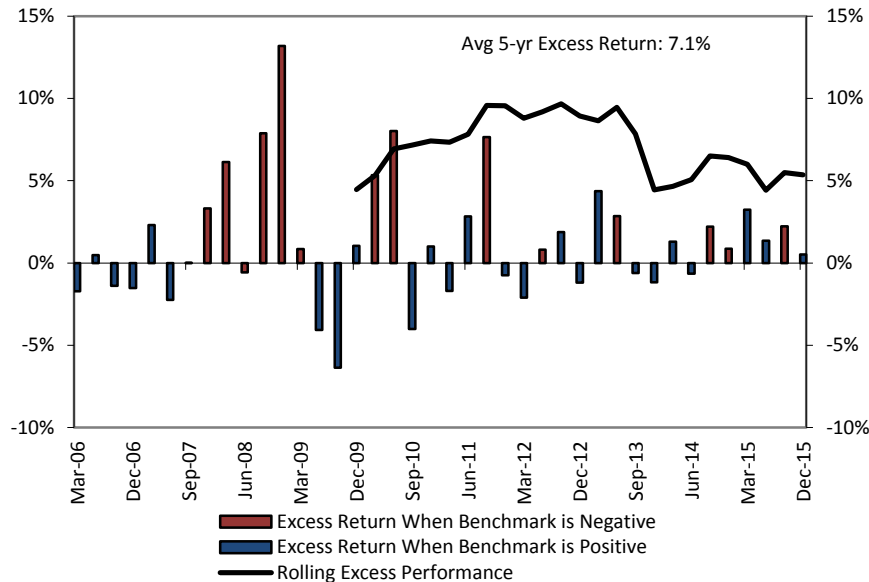


SILCHESTER INTERNATIONAL INVESTORS – INTERNATIONAL VALUE EQUITY

Three-Year Rolling/Quarterly Excess Performance vs. MSCI EAFE Value Index



Five-Year Rolling/Quarterly Excess Performance vs. MSCI EAFE Value Index



Statistical Summary

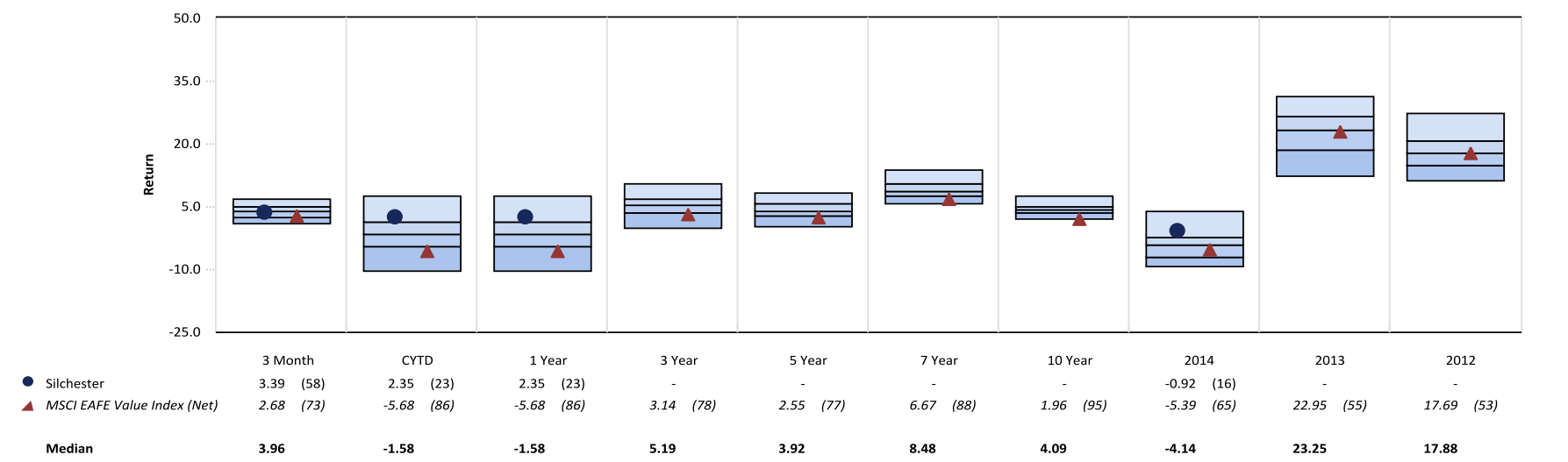
	As of 12/31/15	Silchester	MSCI EAFE Value-ND
3 Year Performance:			
Annualized Return		9.0%	3.1%
Annualized St. Dev		11.8%	12.8%
Sharpe Ratio		0.76	0.24
Tracking Error		3.4%	0.0%
Info Ratio		1.73	0.00
Batting Average		75.0%	0.0%
Up Market Capture		126.2%	100.0%
Down Market Capture		68.0%	100.0%
5 Year Performance:			
Annualized Return		7.9%	2.5%
Annualized St. Dev		12.4%	15.1%
Sharpe Ratio		0.63	0.16
Tracking Error		4.7%	0.0%
Info Ratio		1.14	0.00
Batting Average		65.0%	0.0%
Up Market Capture		111.9%	100.0%
Down Market Capture		69.2%	100.0%
7 Year Performance:			
Annualized Return		11.5%	6.7%
Annualized St. Dev		17.0%	21.5%
Sharpe Ratio		0.66	0.30
Tracking Error		6.4%	0.0%
Info Ratio		0.74	0.00
Batting Average		64.3%	0.0%
Up Market Capture		97.4%	100.0%
Down Market Capture		65.8%	100.0%
10 Year Performance:			
Annualized Return		8.4%	2.0%
Annualized St. Dev		15.8%	21.2%
Sharpe Ratio		0.44	0.03
Tracking Error		7.4%	0.0%
Info Ratio		0.86	0.00
Batting Average		62.5%	0.0%
Up Market Capture		95.5%	100.0%
Down Market Capture		59.7%	100.0%

City of Jacksonville Police & Fire Pension Fund

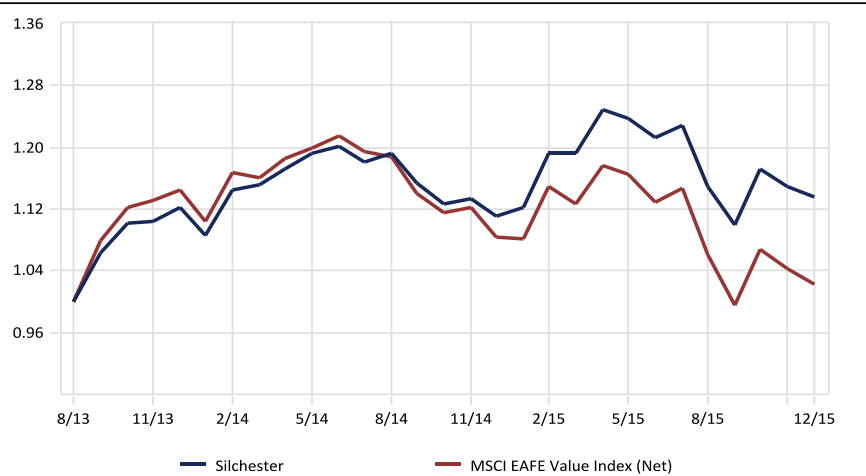
Silchester

December 31, 2015

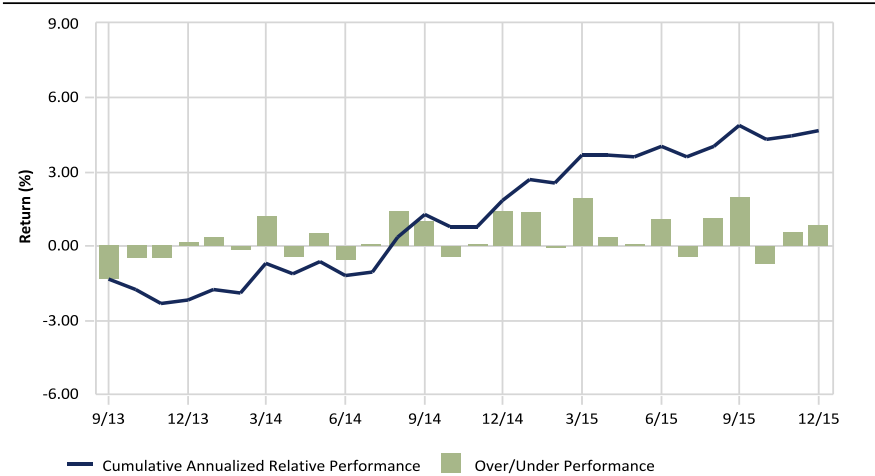
Peer Group Analysis - IM International Large Cap Value Equity (SA+CF)



Growth of \$1 - Since Inception (09/01/13)

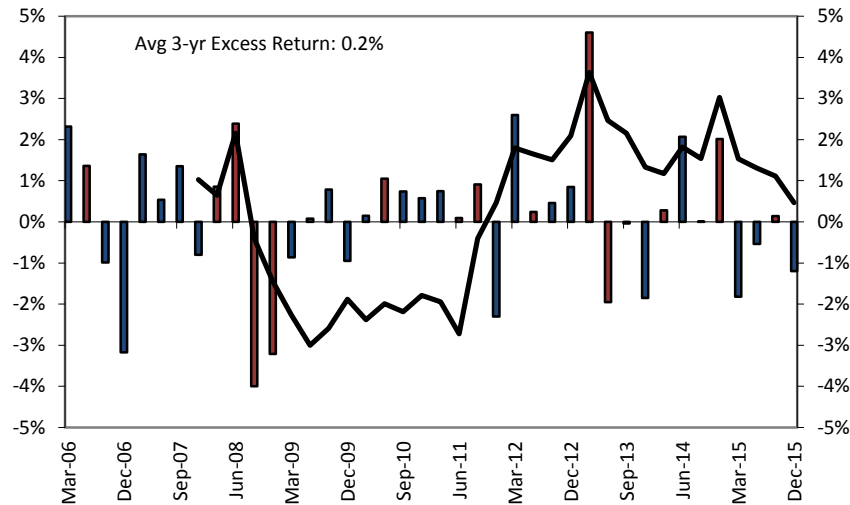


Relative Performance vs. MSCI EAFE Value Index (Net)

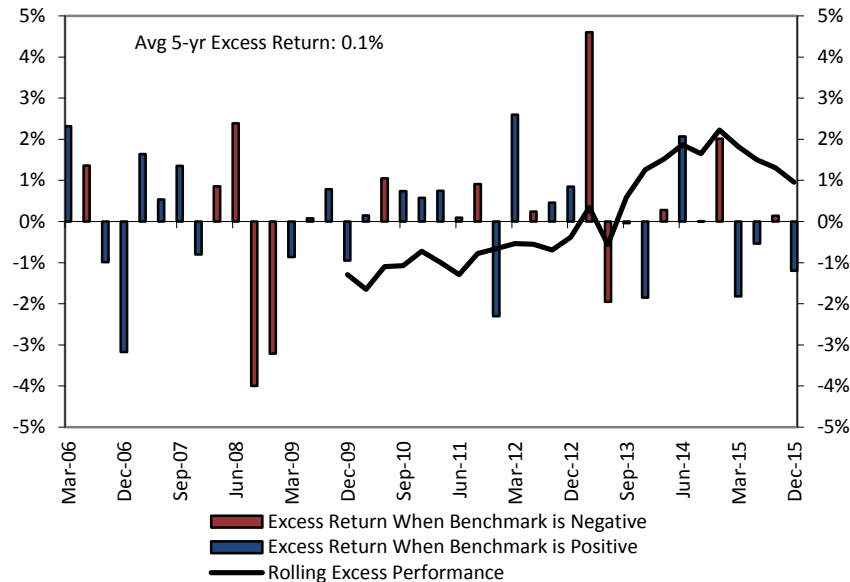


ACADIAN ASSET MANAGEMENT – EMERGING MARKETS EQUITY

Three-Year Rolling/Quarterly Excess Performance vs. MSCI Emerging Markets



Five-Year Rolling/Quarterly Excess Performance vs. MSCI Emerging Markets



Statistical Summary

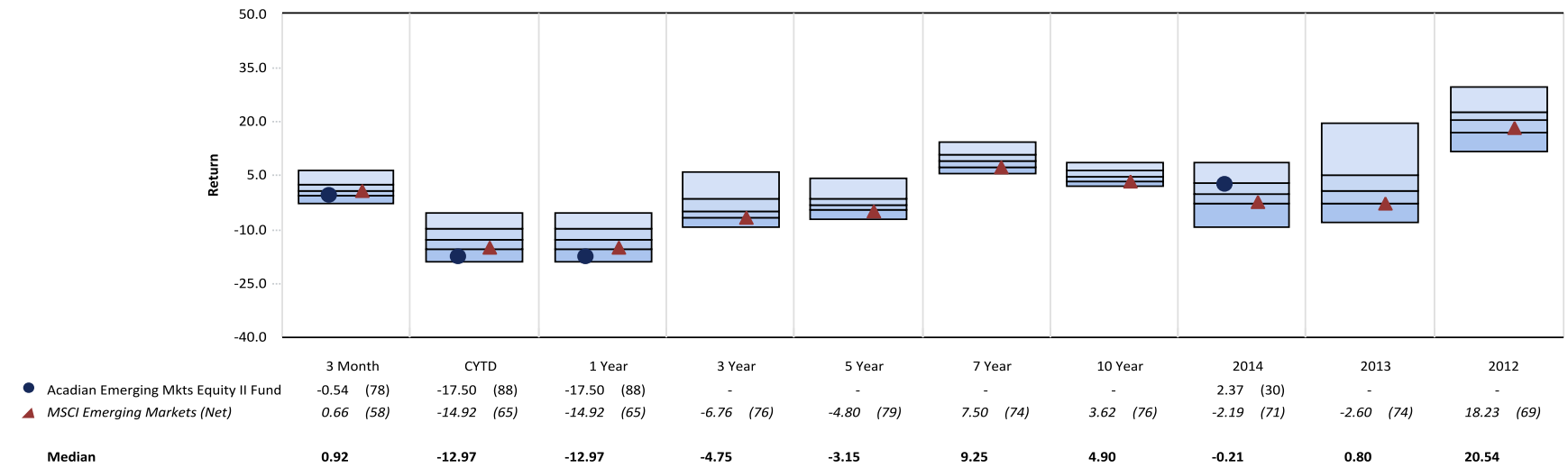
	As of 12/31/15	Acadian	MSCI EM-ND
3 Year Performance:			
Annualized Return		-6.3%	-6.8%
Annualized St. Dev		13.9%	13.2%
Sharpe Ratio		-0.46	-0.52
Tracking Error		3.9%	0.0%
Info Ratio		0.12	0.00
Batting Average		50.0%	0.0%
Up Market Capture		79.1%	100.0%
Down Market Capture		88.4%	100.0%
5 Year Performance:			
Annualized Return		-3.9%	-4.8%
Annualized St. Dev		17.7%	17.1%
Sharpe Ratio		-0.22	-0.28
Tracking Error		3.4%	0.0%
Info Ratio		0.28	0.00
Batting Average		65.0%	0.0%
Up Market Capture		96.7%	100.0%
Down Market Capture		92.5%	100.0%
7 Year Performance:			
Annualized Return		8.5%	7.5%
Annualized St. Dev		22.8%	22.5%
Sharpe Ratio		0.36	0.33
Tracking Error		3.0%	0.0%
Info Ratio		0.33	0.00
Batting Average		67.9%	0.0%
Up Market Capture		98.9%	100.0%
Down Market Capture		92.1%	100.0%
10 Year Performance:			
Annualized Return		3.8%	3.6%
Annualized St. Dev		25.9%	24.9%
Sharpe Ratio		0.09	0.09
Tracking Error		3.5%	0.0%
Info Ratio		0.05	0.00
Batting Average		65.0%	0.0%
Up Market Capture		99.7%	100.0%
Down Market Capture		98.9%	100.0%

City of Jacksonville Police & Fire Pension Fund

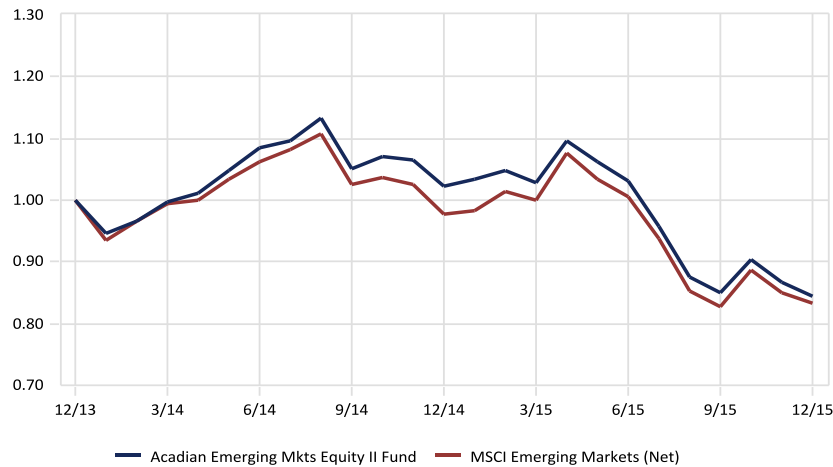
Acadian Emerging Mkts Equity II Fund

December 31, 2015

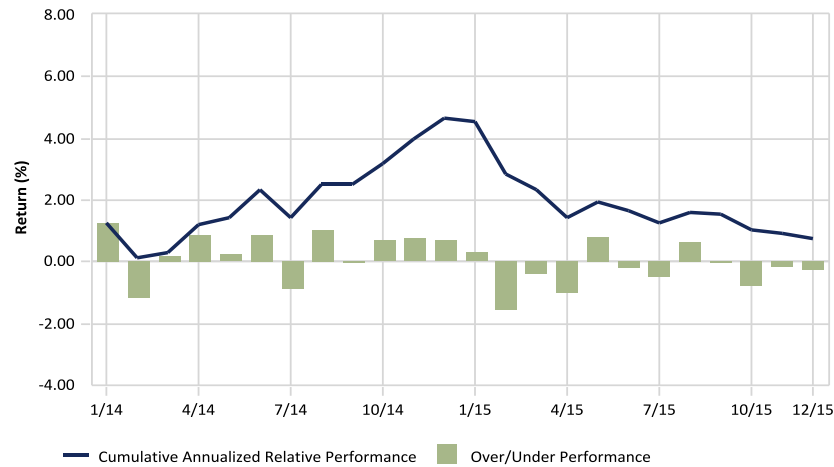
Peer Group Analysis - IM Emerging Markets Equity (SA+CF)



Growth of \$1 - Since Inception (01/01/14)



Relative Performance vs. MSCI Emerging Markets (Net)

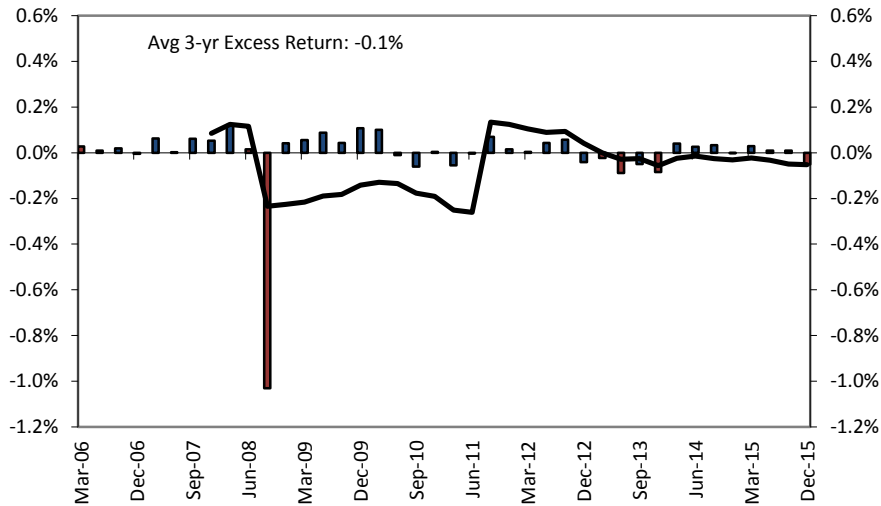


gross of fees

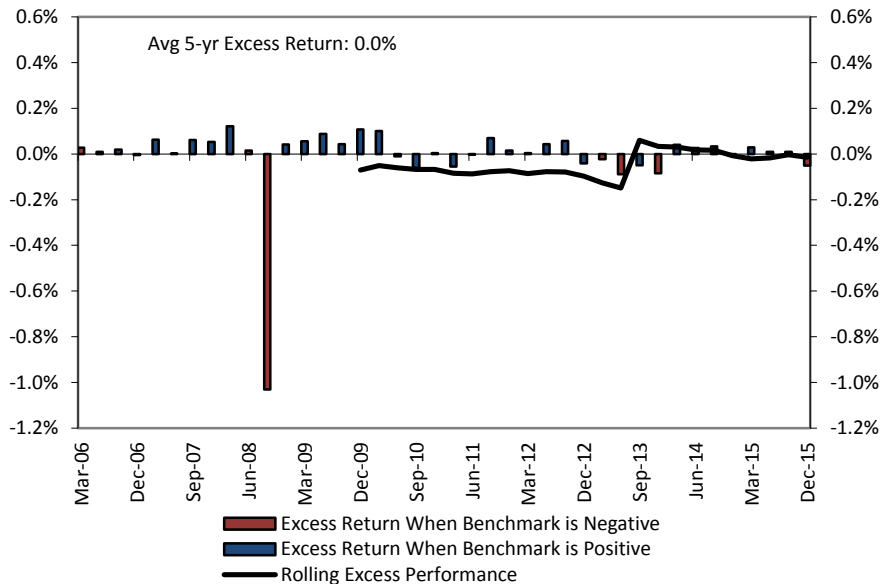
**FIXED INCOME
MANAGER PERFORMANCE REVIEW**

NORTHERN TRUST – NTGI AGGREGATE BOND INDEX

Three-Year Rolling/Quarterly Excess Performance vs. Barclays US Aggregate



Five-Year Rolling/Quarterly Excess Performance vs. Barclays US Aggregate



Statistical Summary

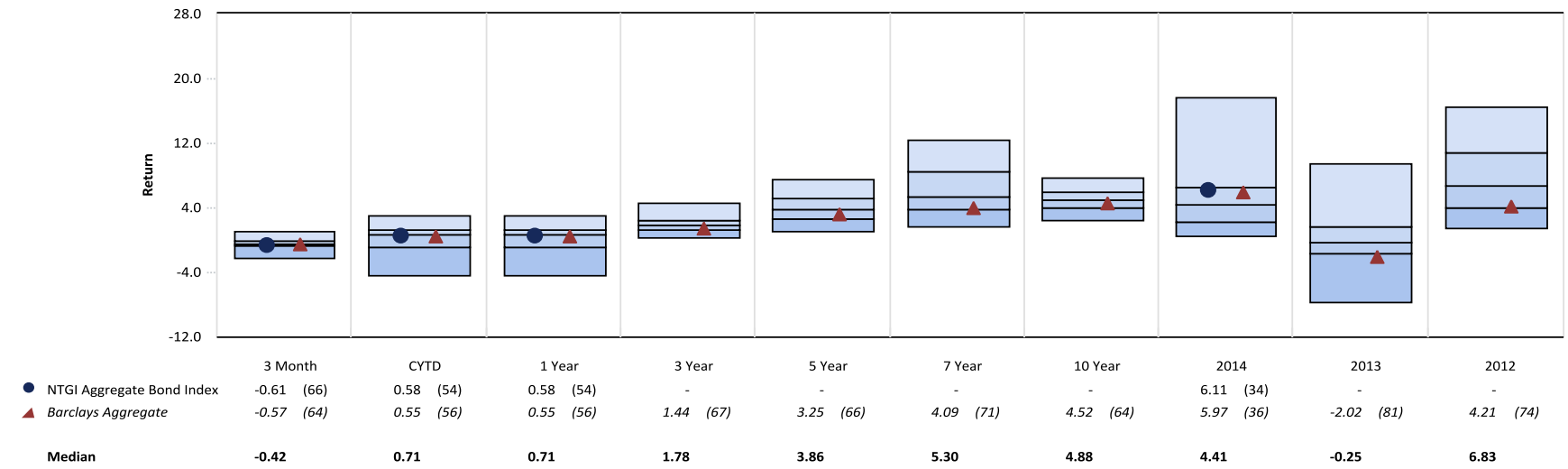
	As of 12/31/15	NTGI Aggregate	Barclays US Aggregate
3 Year Performance:			
Annualized Return		1.4%	1.4%
Annualized St. Dev		2.9%	2.8%
Sharpe Ratio		0.46	0.49
Tracking Error		0.1%	0.0%
Info Ratio		-0.57	0.00
Batting Average		50.0%	0.0%
Up Market Capture		100.9%	100.0%
Down Market Capture		104.8%	100.0%
5 Year Performance:			
Annualized Return		3.2%	3.2%
Annualized St. Dev		2.9%	2.9%
Sharpe Ratio		1.08	1.11
Tracking Error		0.1%	0.0%
Info Ratio		-0.16	0.00
Batting Average		55.0%	0.0%
Up Market Capture		100.8%	100.0%
Down Market Capture		104.8%	100.0%
7 Year Performance:			
Annualized Return		4.1%	4.1%
Annualized St. Dev		3.1%	3.1%
Sharpe Ratio		1.27	1.28
Tracking Error		0.1%	0.0%
Info Ratio		0.36	0.00
Batting Average		60.7%	0.0%
Up Market Capture		101.5%	100.0%
Down Market Capture		103.7%	100.0%
10 Year Performance:			
Annualized Return		4.5%	4.5%
Annualized St. Dev		3.4%	3.3%
Sharpe Ratio		0.92	0.97
Tracking Error		0.3%	0.0%
Info Ratio		-0.12	0.00
Batting Average		67.5%	0.0%
Up Market Capture		101.6%	100.0%
Down Market Capture		113.4%	100.0%

City of Jacksonville Police & Fire Pension Fund

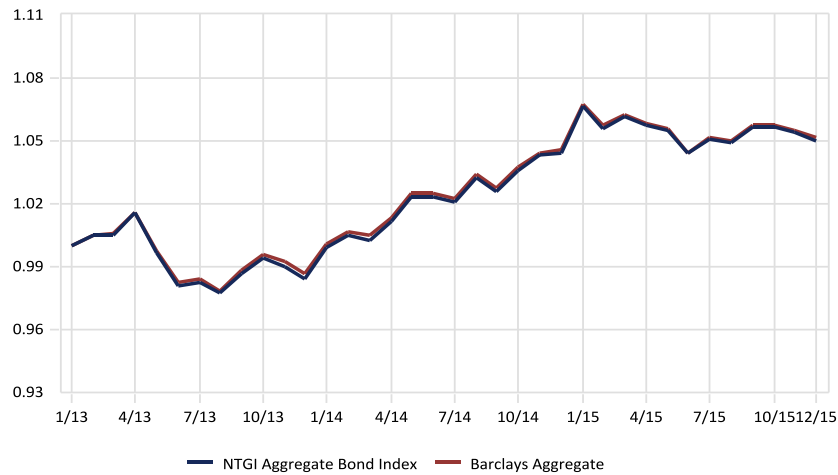
NTGI Aggregate Bond Index

December 31, 2015

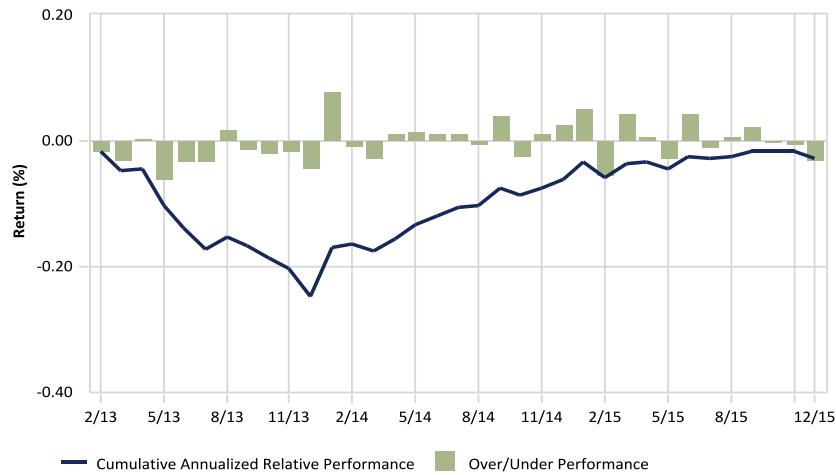
Peer Group Analysis - IM U.S. Fixed Income (SA+CF)



Growth of \$1 - Since Inception (02/01/13)



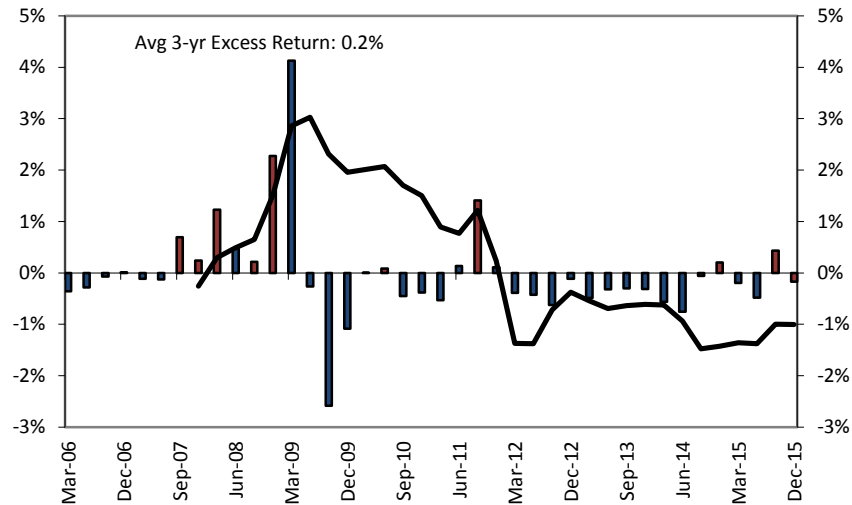
Relative Performance vs. Barclays Aggregate



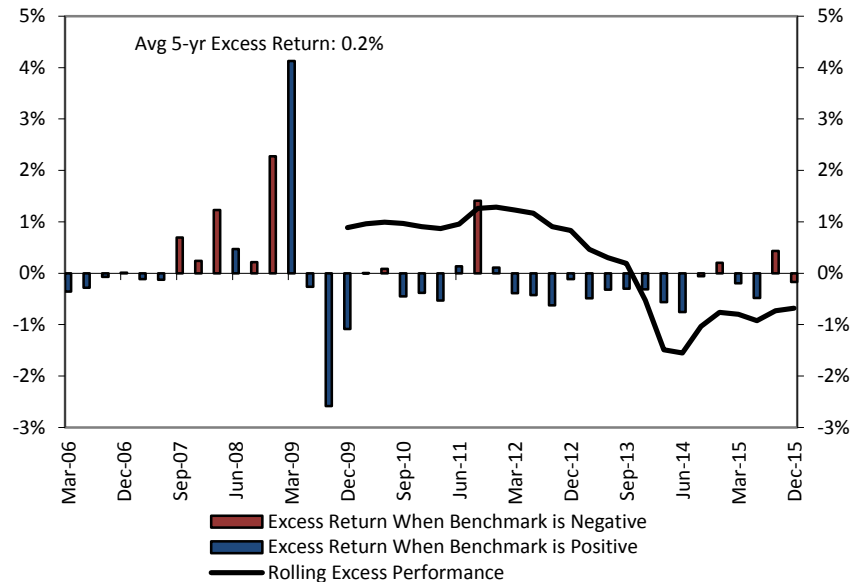
gross of fees

EATON VANCE MANAGEMENT – SENIOR FLOATING-RATE BANK LOANS

Three-Year Rolling/Quarterly Excess Performance vs. CS Leveraged Loan Index



Five-Year Rolling/Quarterly Excess Performance vs. CS Leveraged Loan Index



Statistical Summary

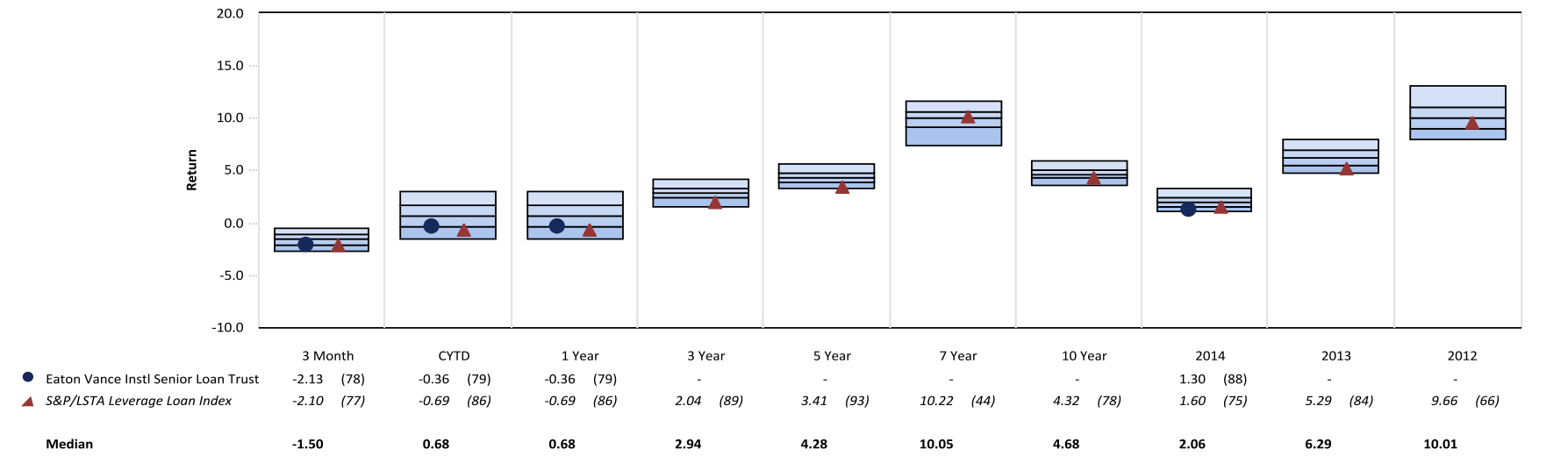
	As of 12/31/15	Eaton Vance	CS Leveraged Loan
3 Year Performance:			
Annualized Return		1.6%	2.6%
Annualized St. Dev		2.3%	2.7%
Sharpe Ratio		0.65	0.93
Tracking Error		0.7%	0.0%
Info Ratio		-1.52	0.00
Batting Average		16.7%	0.0%
Up Market Capture		70.2%	100.0%
Down Market Capture		89.6%	100.0%
5 Year Performance:			
Annualized Return		3.1%	3.8%
Annualized St. Dev		3.0%	3.6%
Sharpe Ratio		1.02	1.03
Tracking Error		1.0%	0.0%
Info Ratio		-0.71	0.00
Batting Average		25.0%	0.0%
Up Market Capture		79.7%	100.0%
Down Market Capture		76.4%	100.0%
7 Year Performance:			
Annualized Return		9.1%	9.7%
Annualized St. Dev		8.3%	8.3%
Sharpe Ratio		1.08	1.15
Tracking Error		2.1%	0.0%
Info Ratio		-0.29	0.00
Batting Average		28.6%	0.0%
Up Market Capture		91.6%	100.0%
Down Market Capture		78.2%	100.0%
10 Year Performance:			
Annualized Return		4.2%	4.1%
Annualized St. Dev		10.5%	11.1%
Sharpe Ratio		0.27	0.25
Tracking Error		2.0%	0.0%
Info Ratio		0.05	0.00
Batting Average		37.5%	0.0%
Up Market Capture		92.5%	100.0%
Down Market Capture		86.0%	100.0%

City of Jacksonville Police & Fire Pension Fund

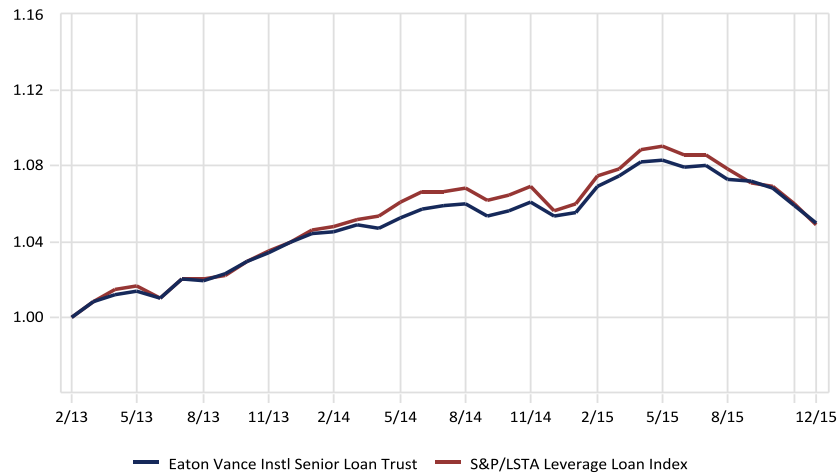
Eaton Vance Instl Senior Loan Trust

December 31, 2015

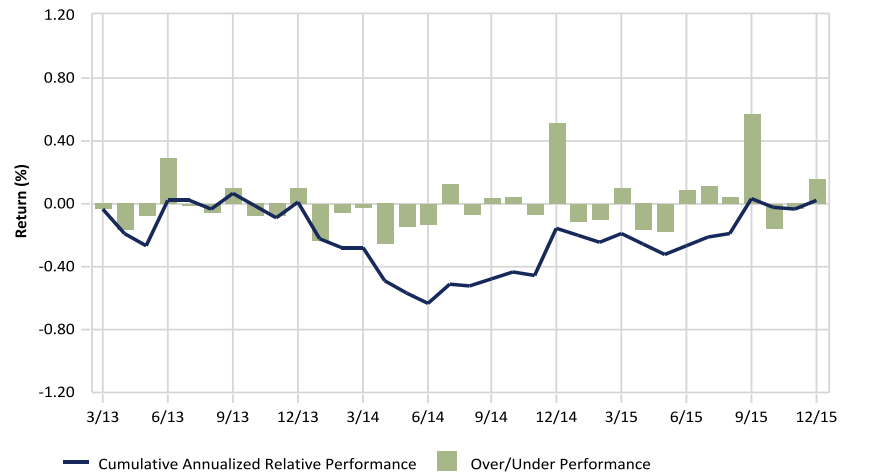
Peer Group Analysis - IM U.S. Bank Loans (SA+CF)



Growth of \$1 - Since Inception (03/01/13)



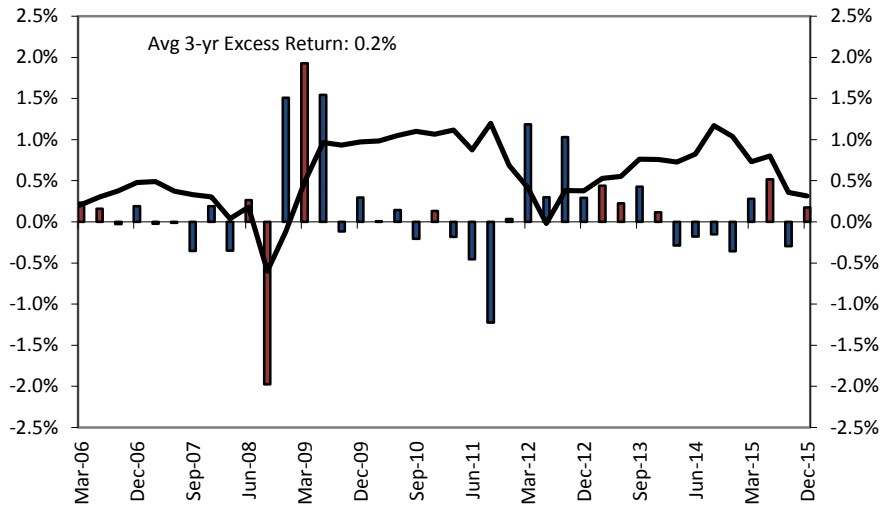
Relative Performance vs. S&P/LSTA Leverage Loan Index



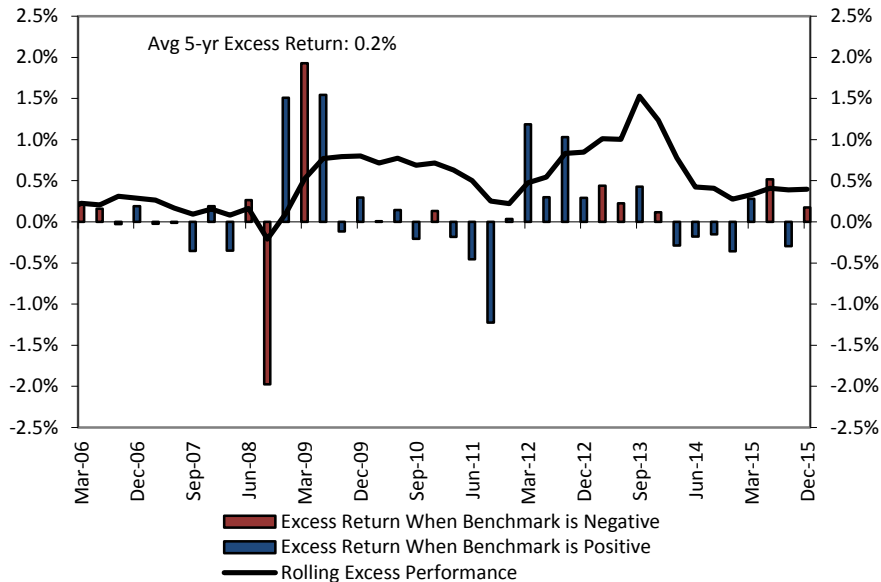
gross of fees

THOMPSON, SIEGEL, & WALMSLEY – TS&W CORE

Three-Year Rolling/Quarterly Excess Performance vs. TS&W Policy Index



Five-Year Rolling/Quarterly Excess Performance vs. TS&W Policy Index



Statistical Summary

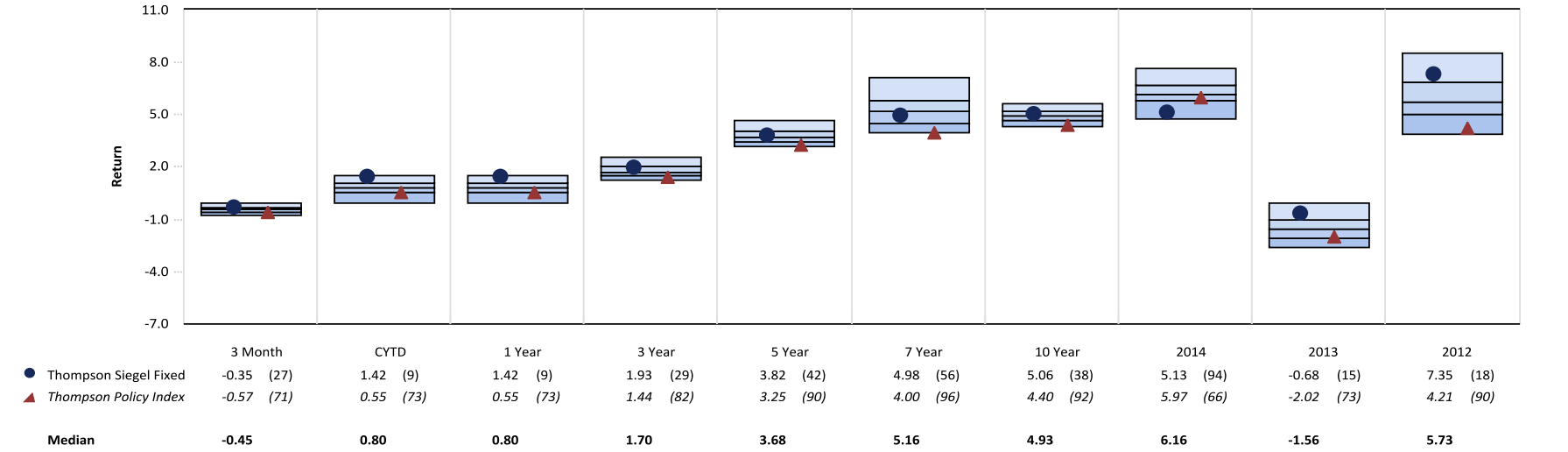
	As of 12/31/15	TS&W	Thompson Policy Index
3 Year Performance:			
Annualized Return		1.8%	1.4%
Annualized St. Dev		2.5%	2.8%
Sharpe Ratio		0.69	0.49
Tracking Error		0.6%	0.0%
Info Ratio		0.50	0.00
Batting Average		58.3%	0.0%
Up Market Capture		93.8%	100.0%
Down Market Capture		69.9%	100.0%
5 Year Performance:			
Annualized Return		3.6%	3.2%
Annualized St. Dev		2.5%	2.9%
Sharpe Ratio		1.44	1.11
Tracking Error		1.1%	0.0%
Info Ratio		0.37	0.00
Batting Average		60.0%	0.0%
Up Market Capture		102.1%	100.0%
Down Market Capture		69.9%	100.0%
7 Year Performance:			
Annualized Return		4.8%	4.0%
Annualized St. Dev		3.0%	3.2%
Sharpe Ratio		1.58	1.18
Tracking Error		1.3%	0.0%
Info Ratio		0.67	0.00
Batting Average		64.3%	0.0%
Up Market Capture		106.1%	100.0%
Down Market Capture		52.3%	100.0%
10 Year Performance:			
Annualized Return		5.0%	4.4%
Annualized St. Dev		3.9%	3.7%
Sharpe Ratio		0.93	0.83
Tracking Error		1.3%	0.0%
Info Ratio		0.41	0.00
Batting Average		60.0%	0.0%
Up Market Capture		105.9%	100.0%
Down Market Capture		82.4%	100.0%

City of Jacksonville Police & Fire Pension Fund

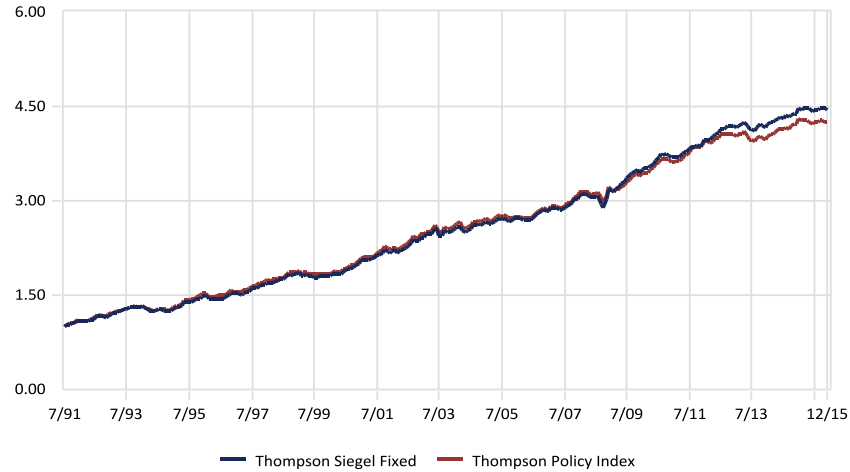
Thompson Siegel Fixed

December 31, 2015

Peer Group Analysis - IM U.S. Broad Market Core Fixed Income (SA+CF)

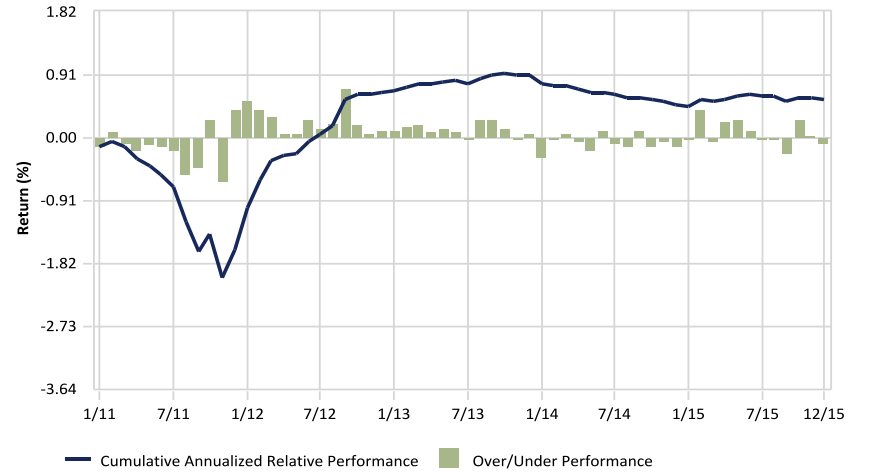


Growth of \$1 - Since Inception (08/01/91)



gross of fees

Relative Performance vs. Thompson Policy Index



City of Jacksonville Police & Fire Pension Fund

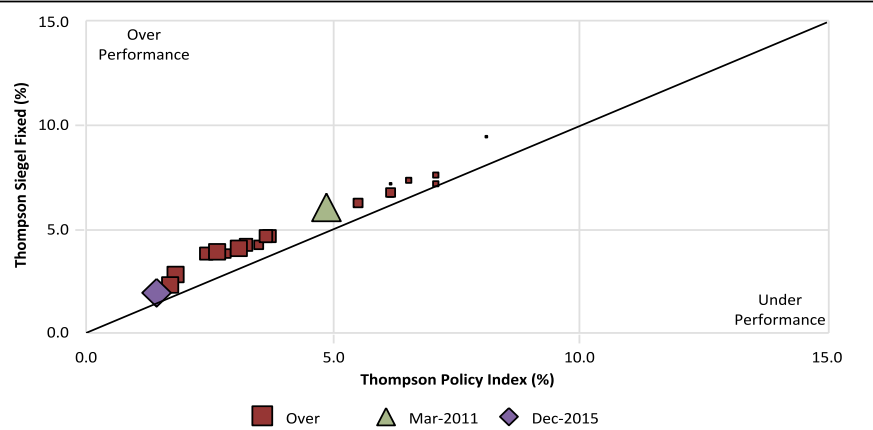
Thompson Siegel Fixed

December 31, 2015

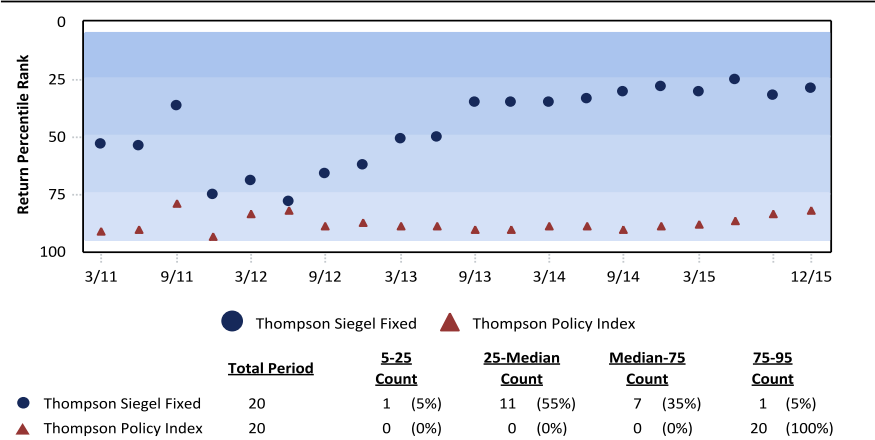
3 Year Portfolio Statistics

	Simple Alpha	Alpha	Beta	R-Squared	Tracking Error	Information Ratio	Sharpe Ratio	Consistency	Up Capture	Down Capture	Actual Correlation
Thompson Siegel Fixed	0.48	0.60	0.91	0.97	0.52	0.91	0.71	55.56	98.81	84.10	0.99
Thompson Policy Index	0.00	0.00	1.00	1.00	0.00	-	0.50	0.00	100.00	100.00	1.00
90 Day US Treasury Bill	-1.40	0.04	0.00	0.01	2.87	-0.50	-	44.44	0.42	-0.59	0.07

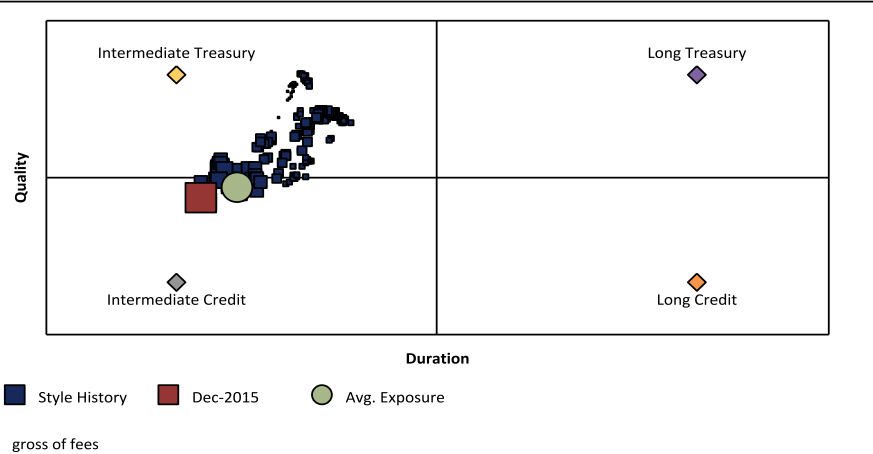
3 Year Rolling Under/Over Performance



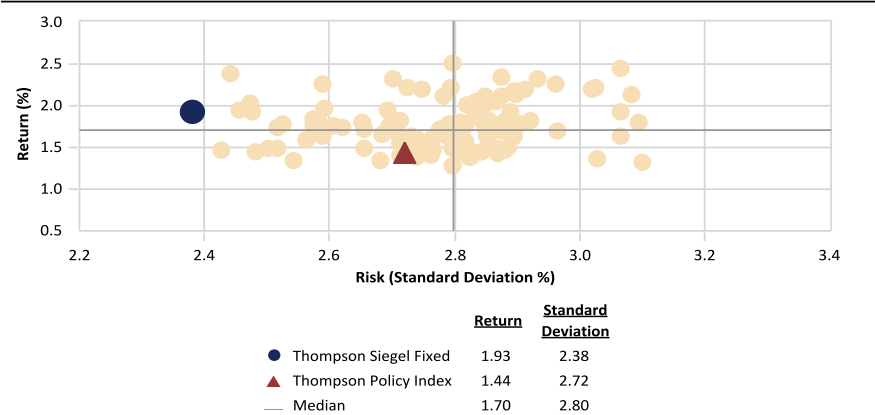
3 Year Rolling Relative Ranking



3 Year Style Analysis



Risk vs. Return (01/01/13 - 12/31/15)



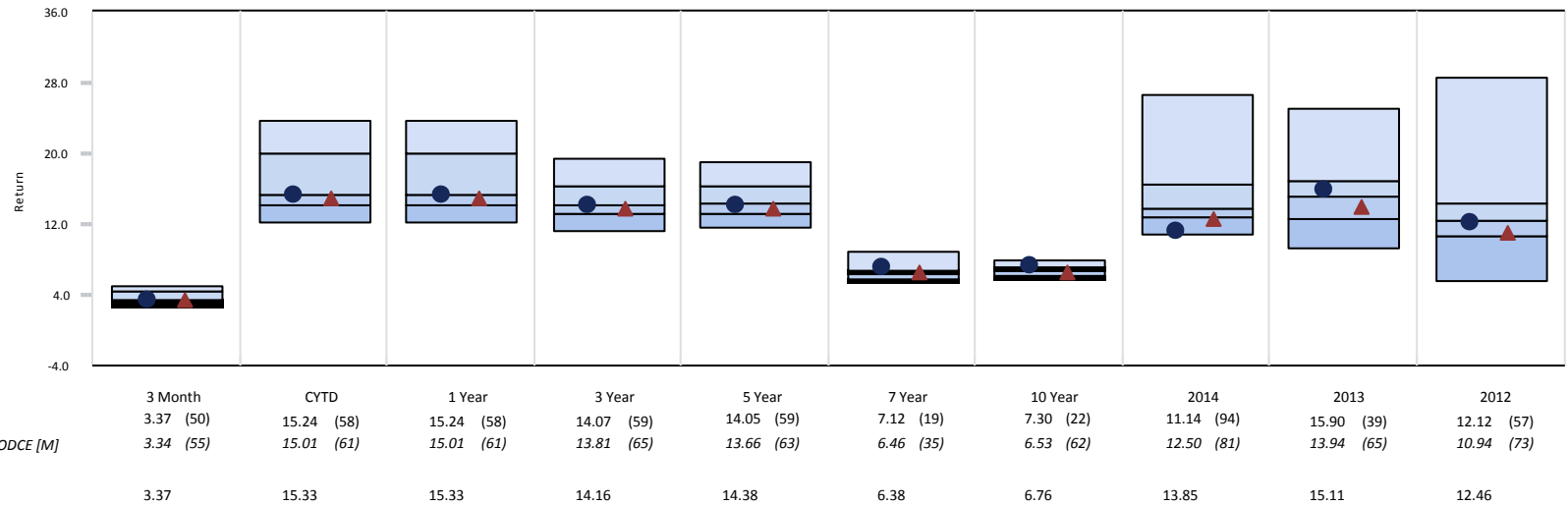
**REAL ESTATE
MANAGER PERFORMANCE REVIEW**

City of Jacksonville Police & Fire Pension Fund

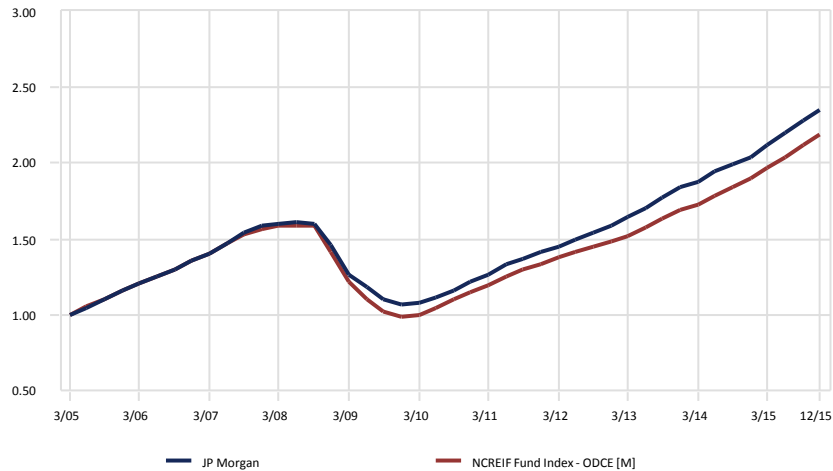
JP Morgan

December 31, 2015

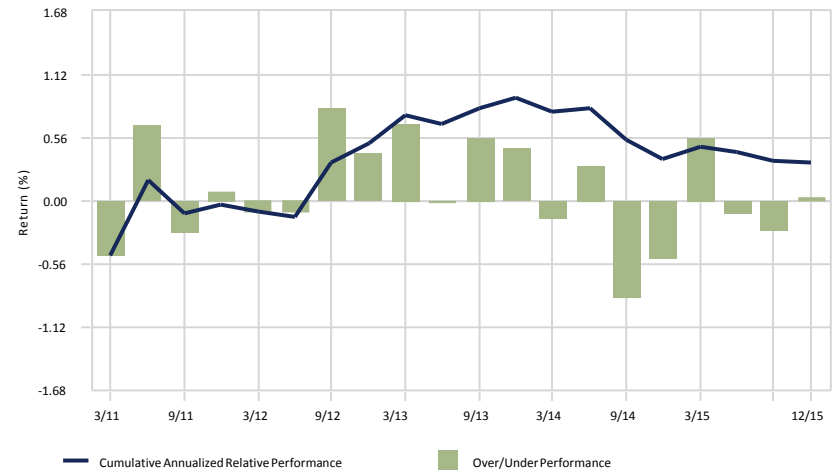
Peer Group Analysis - IM U.S. Private Real Estate (SA+CF)



Growth of \$1 - Since Inception (04/01/05)



Relative Performance vs. NCREIF Fund Index - ODCE [M]



City of Jacksonville Police & Fire Pension Fund

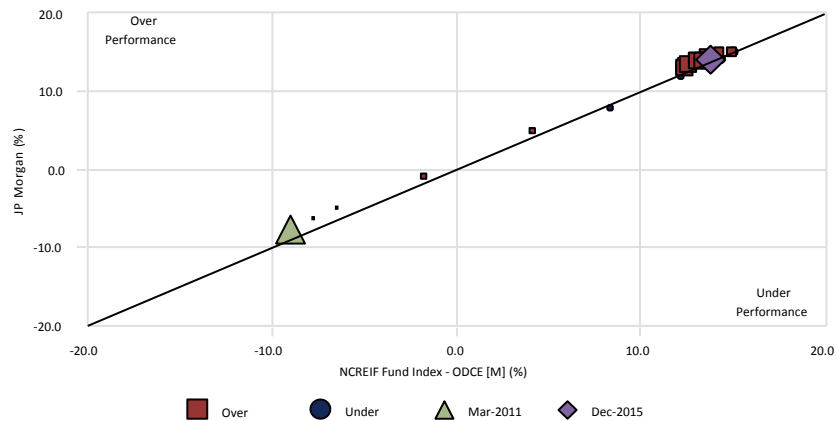
JP Morgan

December 31, 2015

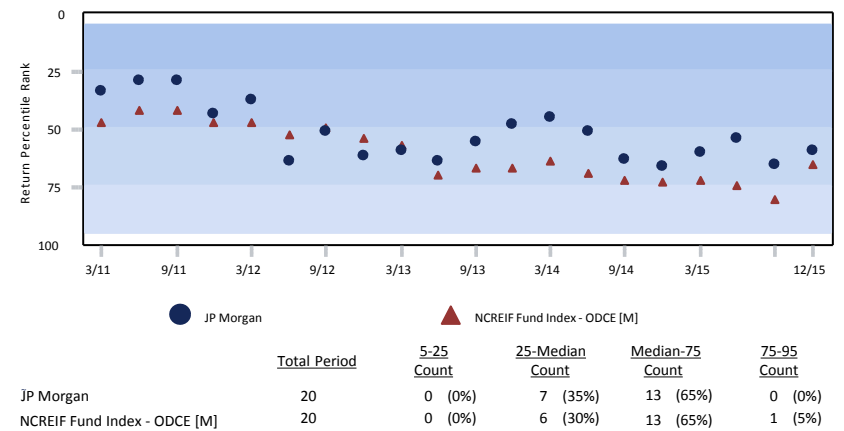
3 Year Portfolio Statistics

	Simple Alpha	Alpha	Beta	R-Squared	Tracking Error	Information Ratio	Sharpe Ratio	Consistency	Up Capture	Down Capture	Actual Correlation
JP Morgan	0.26	12.44	0.11	0.20	4.97	0.02	9.86	66.67	100.72	-	0.45
NCREIF Fund Index - ODCE [M]	0.00	1.00	1.00	1.00	0.00	-	2.42	0.00	100.00	-	1.00
90 Day US Treasury Bill	-13.77	0.01	0.00	0.13	5.42	-2.42	-	44.44	0.30	-	0.36

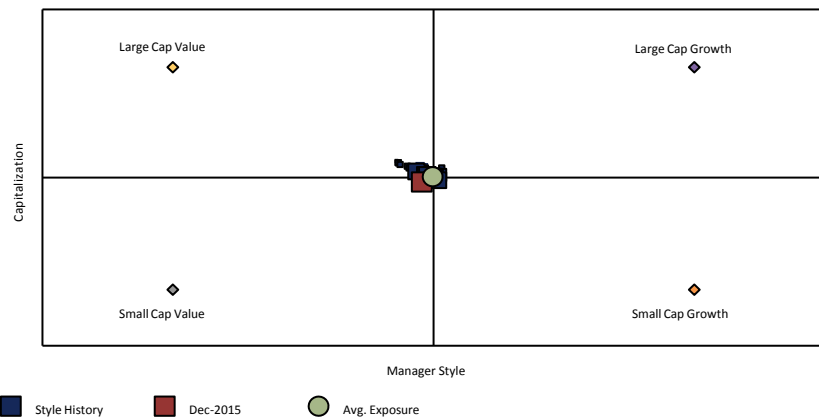
3 Year Rolling Under/Over Performance



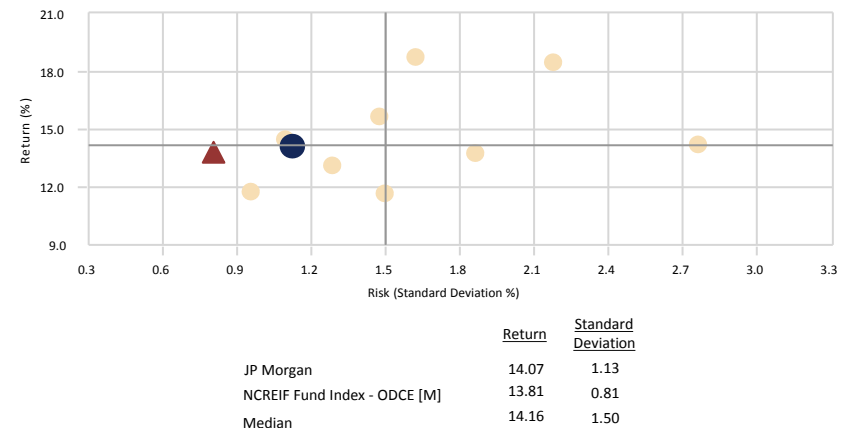
3 Year Rolling Relative Ranking



3 Year Style Analysis



Risk vs. Return (01/01/13 - 12/31/15)

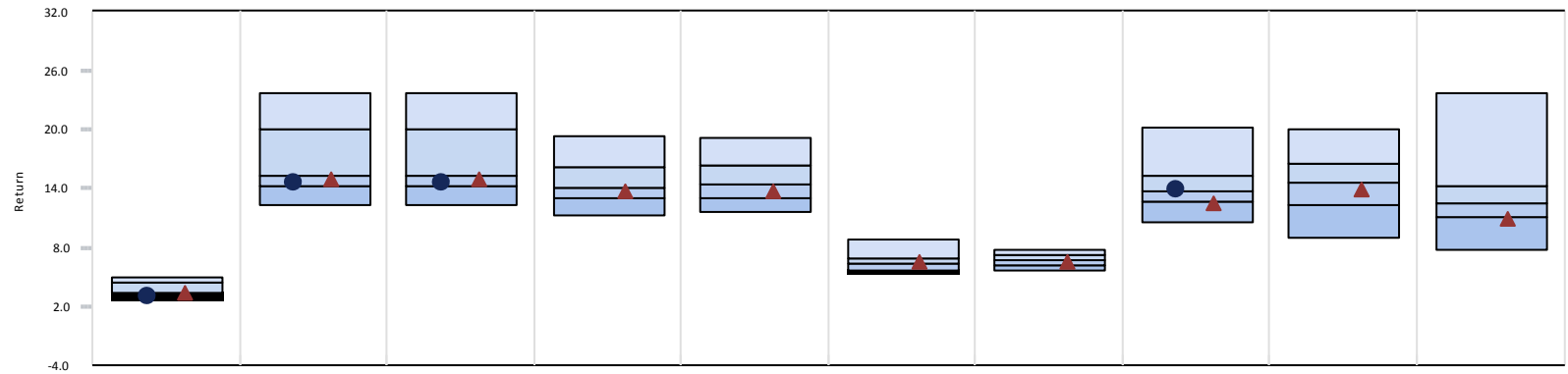


City of Jacksonville Police & Fire Pension Fund

Principal Global Investments

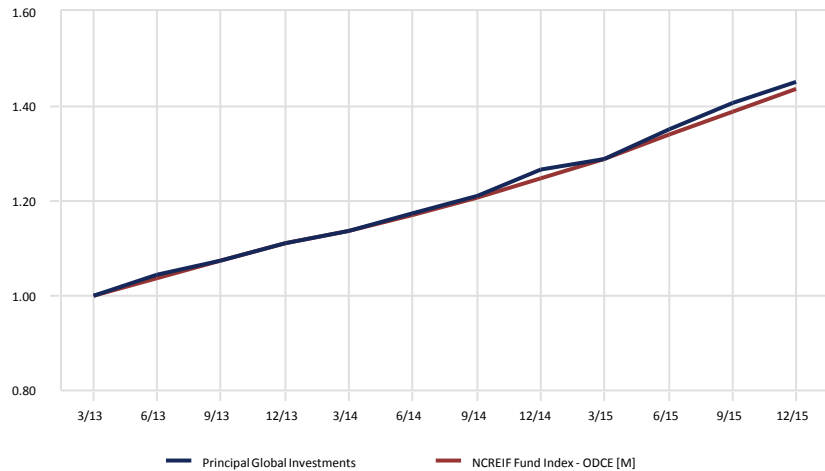
December 31, 2015

Peer Group Analysis - IM U.S. Open End Private Real Estate (SA+CF)

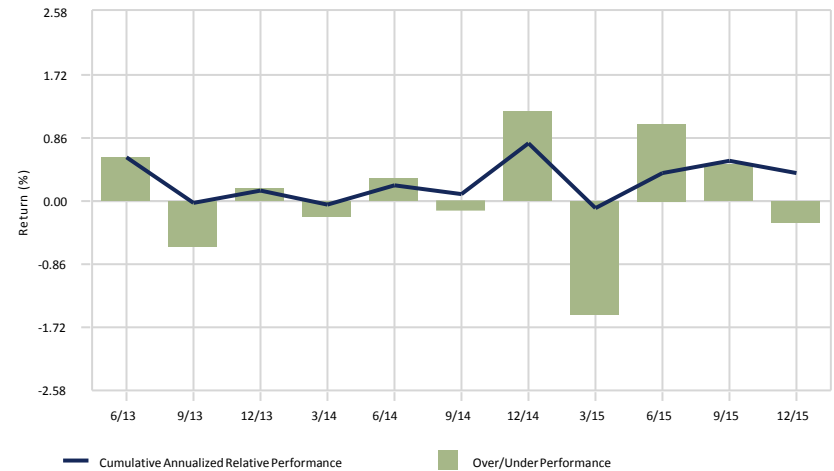


Principal Global Investments	3.04 (75)	14.68 (65)	14.68 (65)	-	-	-	-	13.87 (42)	-	-
NCREIF Fund Index - ODCE [M]	3.34 (55)	15.01 (61)	15.01 (61)	13.81 (65)	13.66 (63)	6.46 (35)	6.53 (62)	12.50 (78)	13.94 (59)	10.94 (77)
Median	3.37	15.33	15.33	14.16	14.38	6.38	6.76	13.70	14.63	12.45

Growth of \$1 - Since Inception (04/01/13)



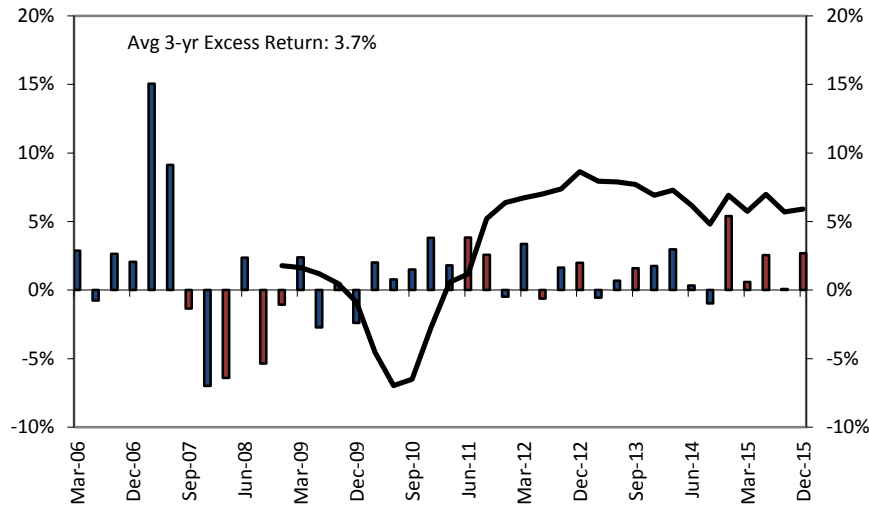
Relative Performance vs. NCREIF Fund Index - ODCE [M]



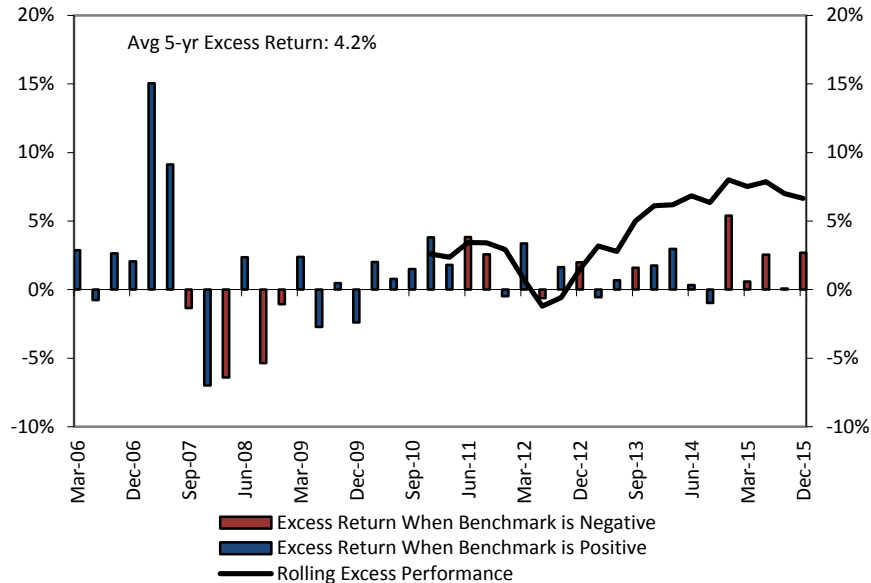
**MLP/ENERGY
MANAGER PERFORMANCE REVIEW**

HARVEST FUND ADVISORS – MLP

Three-Year Rolling/Quarterly Excess Performance vs. S&P MLP Index



Five-Year Rolling/Quarterly Excess Performance vs. S&P MLP Index



Statistical Summary

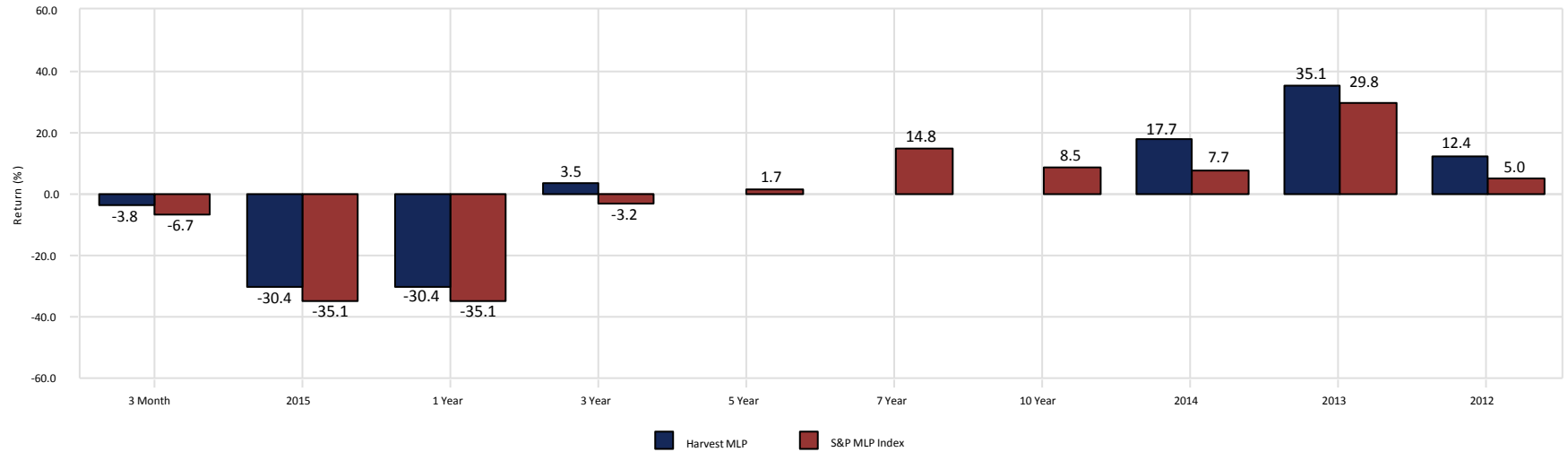
	As of 12/31/15	Harvest	S&P MLP Index
3 Year Performance:			
Annualized Return	2.7%	2.7%	-3.2%
Annualized St. Dev	22.3%	22.3%	23.4%
Sharpe Ratio	0.12	0.12	-0.14
Tracking Error	3.6%	3.6%	0.0%
Info Ratio	1.66	1.66	0.00
Batting Average	83.3%	83.3%	0.0%
Up Market Capture	110.2%	110.2%	100.0%
Down Market Capture	79.0%	79.0%	100.0%
5 Year Performance:			
Annualized Return	8.4%	8.4%	1.7%
Annualized St. Dev	19.3%	19.3%	20.2%
Sharpe Ratio	0.43	0.43	0.08
Tracking Error	3.4%	3.4%	0.0%
Info Ratio	1.98	1.98	0.00
Batting Average	80.0%	80.0%	0.0%
Up Market Capture	115.2%	115.2%	100.0%
Down Market Capture	72.0%	72.0%	100.0%
7 Year Performance:			
Annualized Return	21.1%	21.1%	14.8%
Annualized St. Dev	19.1%	19.1%	20.5%
Sharpe Ratio	1.10	1.10	0.72
Tracking Error	3.7%	3.7%	0.0%
Info Ratio	1.68	1.68	0.00
Batting Average	78.6%	78.6%	0.0%
Up Market Capture	111.4%	111.4%	100.0%
Down Market Capture	72.0%	72.0%	100.0%
10 Year Performance:			
Annualized Return	13.3%	13.3%	8.5%
Annualized St. Dev	23.4%	23.4%	21.0%
Sharpe Ratio	0.51	0.51	0.34
Tracking Error	7.4%	7.4%	0.0%
Info Ratio	0.64	0.64	0.00
Batting Average	70.0%	70.0%	0.0%
Up Market Capture	121.5%	121.5%	100.0%
Down Market Capture	96.9%	96.9%	100.0%

City of Jacksonville Police & Fire Pension Fund

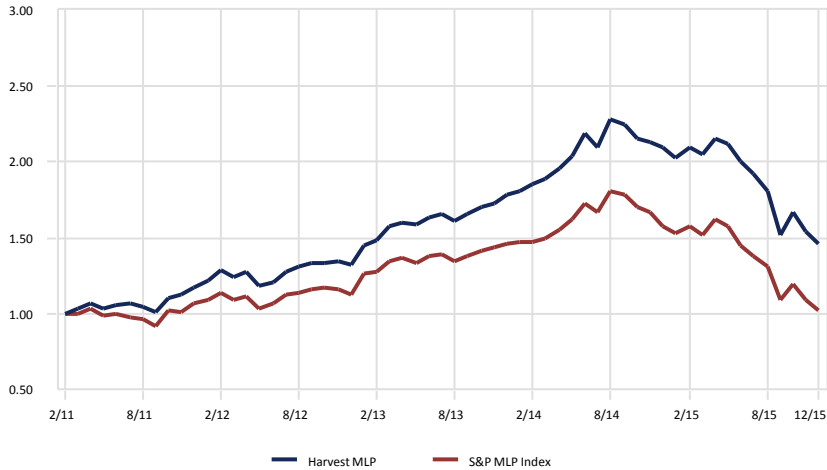
Harvest MLP

December 31, 2015

Comparative Performance

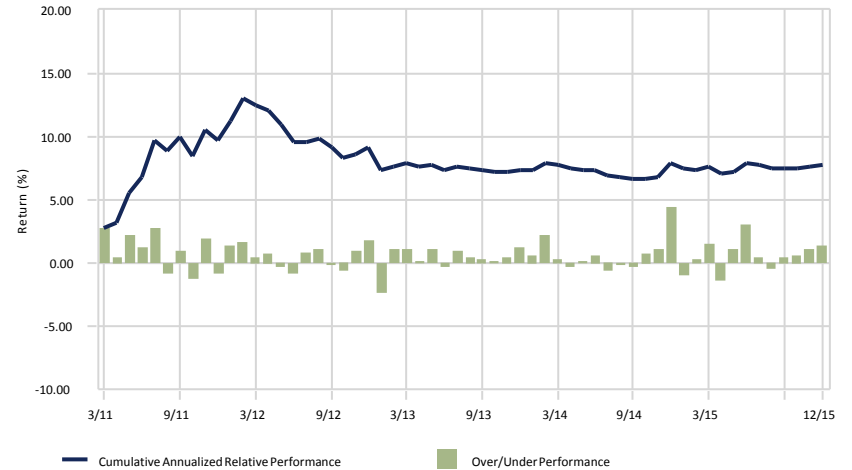


Growth of \$1 - Since Inception (03/01/11)



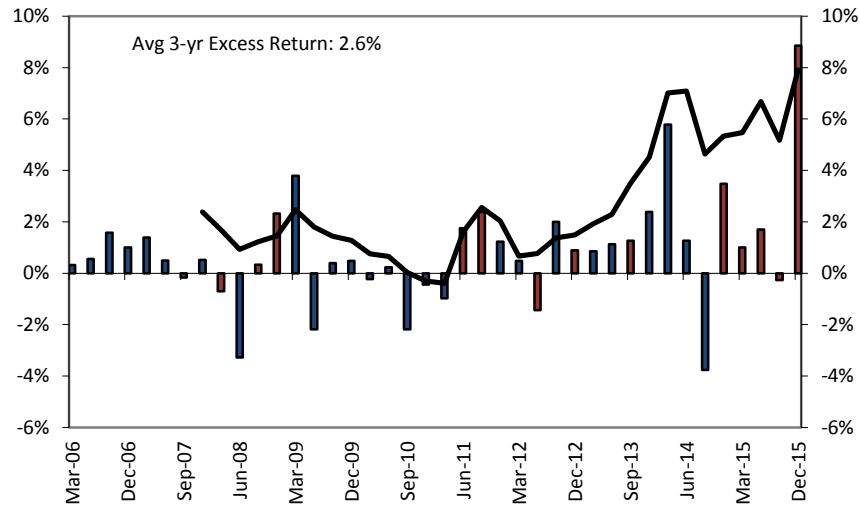
gross of fees

Relative Performance vs. S&P MLP Index

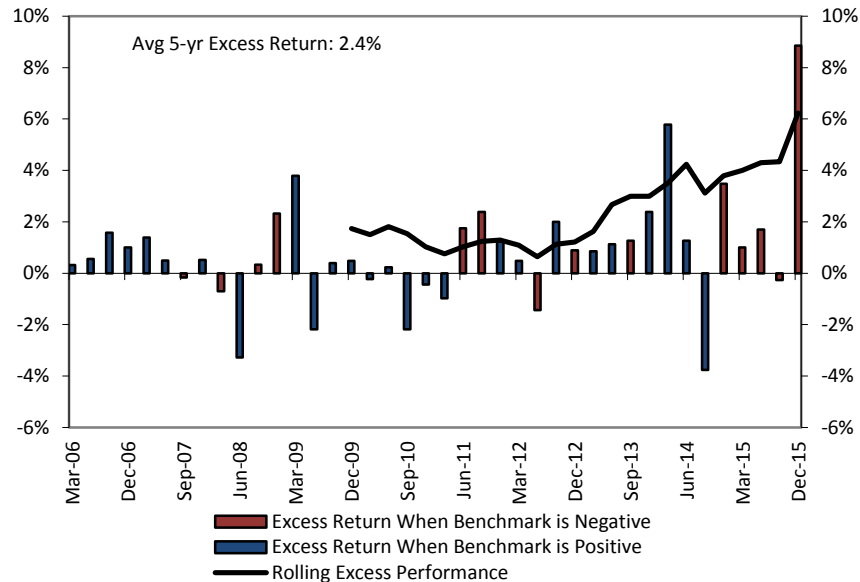


TORTOISE CAPITAL ADVISORS – MLP

Three-Year Rolling/Quarterly Excess Performance vs. S&P MLP Index



Five-Year Rolling/Quarterly Excess Performance vs. S&P MLP Index



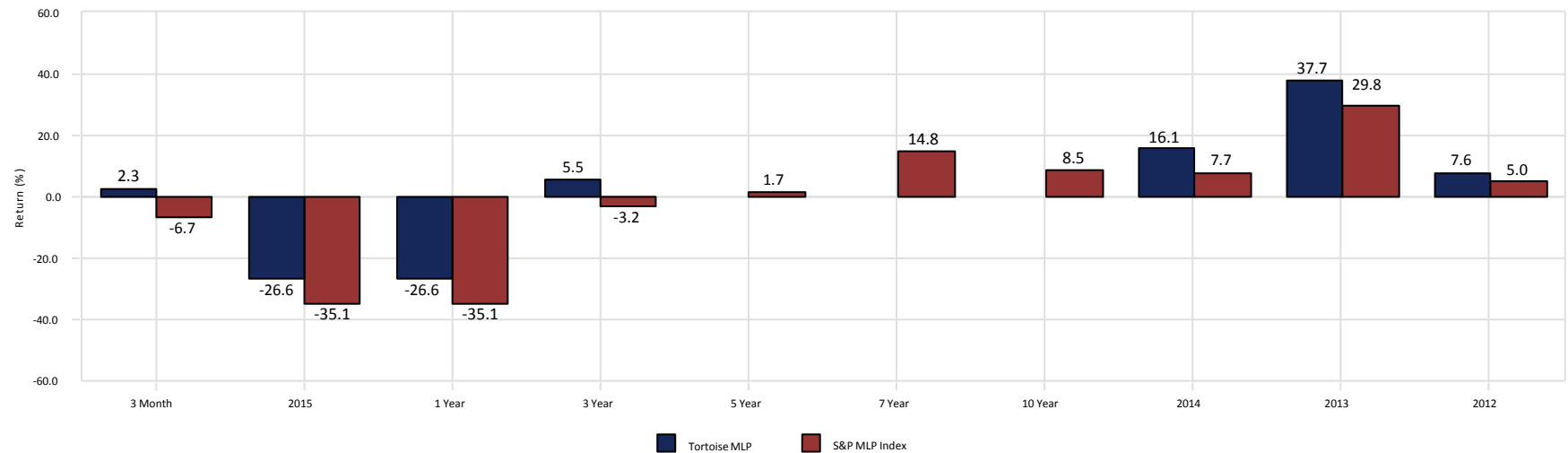
Statistical Summary

	As of 12/31/15	Tortoise	S&P MLP Index
3 Year Performance:			
Annualized Return		4.7%	-3.2%
Annualized St. Dev		23.5%	23.4%
Sharpe Ratio		0.20	-0.14
Tracking Error		6.2%	0.0%
Info Ratio		1.27	0.00
Batting Average		83.3%	0.0%
Up Market Capture		117.6%	100.0%
Down Market Capture		74.3%	100.0%
5 Year Performance:			
Annualized Return		8.0%	1.7%
Annualized St. Dev		20.2%	20.2%
Sharpe Ratio		0.39	0.08
Tracking Error		5.2%	0.0%
Info Ratio		1.21	0.00
Batting Average		80.0%	0.0%
Up Market Capture		114.1%	100.0%
Down Market Capture		73.7%	100.0%
7 Year Performance:			
Annualized Return		19.8%	14.8%
Annualized St. Dev		19.8%	20.5%
Sharpe Ratio		0.99	0.72
Tracking Error		4.9%	0.0%
Info Ratio		1.01	0.00
Batting Average		71.4%	0.0%
Up Market Capture		106.7%	100.0%
Down Market Capture		73.7%	100.0%
10 Year Performance:			
Annualized Return		12.3%	8.5%
Annualized St. Dev		20.7%	21.0%
Sharpe Ratio		0.53	0.34
Tracking Error		4.4%	0.0%
Info Ratio		0.86	0.00
Batting Average		72.5%	0.0%
Up Market Capture		106.3%	100.0%
Down Market Capture		85.3%	100.0%

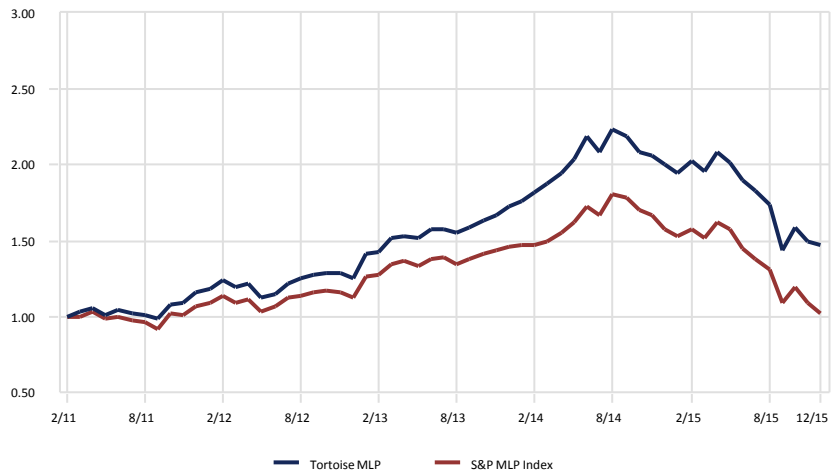
City of Jacksonville Police & Fire Pension Fund

Tortoise MLP
December 31, 2015

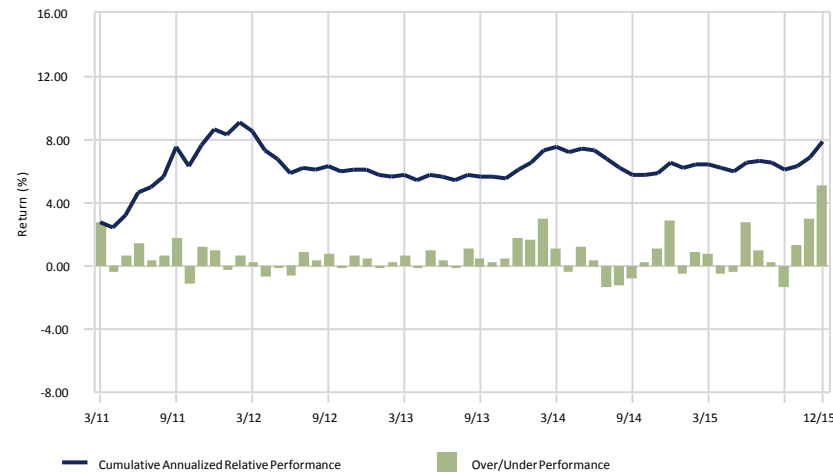
Comparative Performance



Growth of \$1 - Since Inception (03/01/11)



Relative Performance vs. S&P MLP Index



gross of fees

PROSPECTIVE FEE REVIEW

PROSPECTIVE FEE ANALYSIS

Manager Name		Fee Schedule	Mandate (\$) (as of 11/30/2015)	Prospective Annual Fee* (as of 11/30/2015) (bps) (\$)		Peer Fees (at Jacksonville Police & Fire asset levels)
US Equity	NT S&P 500 Index Fund <i>Large Cap - Passive</i> (commingled fund used)	First \$100 million: 5 bps Thereafter: 2 bps	\$99,428,865	5 bps	\$49,714	Evestment Alliance (CF) 25th Percentile: 5 bps Median: 5 bps 75th Percentile: 6 bps
	Eagle Capital Management** <i>Large Cap Value</i> (separate account used)	First \$5 million: 100 bps Thereafter: 75 bps	\$88,183,648	76 bps	\$667,109	Evestment Alliance (SA) 25th Percentile: 48 bps Median: 52 bps 75th Percentile: 59 bps
	GAMCO <i>Large Cap Value</i> (separate account used)	78 bps	\$71,658,437	78 bps	\$558,936	Evestment Alliance (SA) 25th Percentile: 49 bps Median: 53 bps 75th Percentile: 61 bps
	Brown Investment Advisory** <i>Large Cap Growth</i> (separate account used)	\$0-\$50 million: 65 bps \$50-\$100 million: 55 bps \$100-\$150 million: 45 bps Greater than \$150 million: 40 bps	\$63,382,133	40 bps	\$253,529	Evestment Alliance (SA) 25th Percentile: 53 bps Median: 57 bps 75th Percentile: 66 bps
	Sawgrass Asset Management <i>Large Cap Growth</i> (separate account used)	Base: 20 bps Performance: 18% of Excess Return Max: 85 bps	\$104,243,919	20 bps	\$208,488	Evestment Alliance (SA) 25th Percentile: 49 bps Median: 54 bps 75th Percentile: 62 bps
	DePrince Race & Zollo <i>Small Cap Value</i> (separate account used)	First \$65 million: 90 bps Next \$35 million: 75 bps Thereafter: 50 bps	\$103,573,074	84 bps	\$865,365	Evestment Alliance (SA) 25th Percentile: 73 bps Median: 82 bps 75th Percentile: 92 bps
	Pinnacle** <i>SMID Cap Growth</i> (separate account used)	First \$100 million: 70 bps Thereafter: 50 bps	\$85,904,479	65 bps	\$556,575	Evestment Alliance (SA) 25th Percentile: 75 bps Median: 80 bps 75th Percentile: 85 bps
International Equity	NT EAFE Index Fund <i>Developed - Passive</i> (commingled fund used)	First \$50 million: 12 bps Thereafter: 6 bps	\$66,162,085	11 bps	\$69,697	Evestment Alliance (CF) 25th Percentile: 9 bps Median: 12 bps 75th Percentile: 18 bps
	Baillie Gifford** <i>Developed Growth</i> (commingled fund used)	51 bps	\$93,643,621	51 bps	\$477,582	Evestment Alliance (CF) 25th Percentile: 70 bps Median: 78 bps 75th Percentile: 100 bps
	Silchester <i>Developed Value</i> (commingled fund used)	First \$25 million: 100 bps Next \$25 million: 65 bps Next \$25 million: 55 bps Thereafter: 50 bps	\$61,805,419	77 bps	\$477,430	Evestment Alliance (CF) 25th Percentile: 68 bps Median: 75 bps 75th Percentile: 82 bps
	Acadian Emerging Mkts Equity II Fund** <i>Emerging Markets</i> (commingled fund used)	First \$50 million: 75 bps Next \$50 million: 65 bps Thereafter: 50 bps	\$77,847,724	62 bps	\$481,021	Evestment Alliance (CF) 25th Percentile: 80 bps Median: 90 bps 75th Percentile: 100 bps

*Performance/incentive fees not included; only base management fees shown.

**Manager aggregates AUM of City of Jacksonville Police & Fire and City of Jacksonville Employee Retirement System for fee purposes.

PROSPECTIVE FEE ANALYSIS (CONTINUED)

Manager Name		Fee Schedule	Mandate (\$) (as of 11/30/2015)	Prospective Annual Fee* (as of 11/30/2015) (bps) (\$)		Peer Fees (at Jacksonville Police & Fire asset levels)
Fixed Income	NTGI Aggregate Bond Index <i>US Core - Passive</i> <i>(commingled fund used)</i>	First \$100 million: 5 bps Thereafter: 3 bps	\$138,036,320	4 bps	\$61,411	Evestment Alliance (CF) 25th Percentile: 4 bps Median: 5 bps 75th Percentile: 7 bps
	Eaton Vance Instl Senior Loan Trust <i>Bank Loans</i> <i>(commingled fund used)</i>	0-\$50 million: 50 bps \$50-\$100 million: 50 bps Over \$100 million: 40 bps	\$38,633,128	50 bps	\$193,166	Evestment Alliance (CF) 25th Percentile: 47 bps Median: 50 bps 75th Percentile: 55 bps
	Thompson Siegel Fixed <i>US Core</i> <i>(separate account used)</i>	First \$75 million: 20 bps Thereafter: 15 bps	\$139,202,474	18 bps	\$246,304	Evestment Alliance (SA) 25th Percentile: 22 bps Median: 24 bps 75th Percentile: 27 bps
Real Estate	JP Morgan <i>Private Real Estate</i> <i>(commingled fund used)</i>	First \$40 million: 100 bps Next \$25 million: 90 bps Thereafter: 85 bps	\$134,675,544	90 bps	\$1,217,242	Evestment Alliance (CF)*** 25th Percentile: 88 bps Median: 96 bps 75th Percentile: 100 bps
	Principal Global Investments** <i>Private Real Estate</i> <i>(commingled fund used)</i>	80 bps	\$41,976,726	80 bps	\$335,814	Evestment Alliance (CF)*** 25th Percentile: 88 bps Median: 100 bps 75th Percentile: 100 bps
MLP's/Energy	Harvest MLP <i>Master Limited Partnership</i> <i>(separate account used)</i>	First \$100 million: 75 bps Next \$50 million: 70 bps Next \$50 million: 65 bps Next \$50 million: 60 bps Next \$50 million: 55 bps Thereafter: 50 bps	\$45,899,936	75 bps	\$344,250	Evestment Alliance (SA) 25th Percentile: 73 bps Median: 75 bps 75th Percentile: 90 bps
	Tortoise MLP <i>Master Limited Partnership</i> <i>(separate account used)</i>	75 bps	\$44,979,891	75 bps	\$337,349	Evestment Alliance (SA) 25th Percentile: 73 bps Median: 75 bps 75th Percentile: 90 bps
Total (including cash)			\$1,499,859,642	49 bps	\$7,400,982	

*Performance/incentive fees not included; only base management fees shown.

**Manager aggregates AUM of City of Jacksonville Police & Fire and City of Jacksonville Employee Retirement System for fee purposes.

***Summit's peer fee estimation for private real estate is 100-200 bps, similar to the eVestment data.

Disclaimer: Summit Strategies Group (Summit) has prepared this report for the exclusive use by its clients. The information herein was obtained from various sources, which Summit believes to be reliable, and may contain opinions developed by Summit. Summit does not guarantee the accuracy or completeness of the opinions, observations or other information contained in this report. The opinions, market commentary, portfolio holdings and characteristics are as of the date shown and are subject to change. Past performance is no guarantee of future performance. No graph, chart, or formula can, in and of itself, be used to determine which managers or investments to buy or sell. Any forward-looking projection contained herein is based on assumptions that Summit believes may be reasonable, but are subject to a wide range of risks, uncertainties and the possibility of loss. Accordingly, there is no assurance that any estimated performance figures will occur in the amounts and during the periods indicated, or at all. Actual results and performance will differ from those expressed or implied by such forward-looking projections. Any information contained in this report is for information purposes only and should not be construed to be an offer to buy or sell any securities, investment consulting or investment management.