

**JACKSONVILLE POLICE AND FIRE PENSION FUND  
FINANCIAL INVESTMENT AND ADVISORY COMMITTEE (FIAC)  
MEETING AGENDA – SEPTEMBER 9, 2016  
RICHARD “DICK” COHEE BOARD ROOM**

**PFPF MISSION STATEMENT**

*To provide long term benefits to participants and their beneficiaries*

**PRESENT**

Eric “Brian” Smith Jr., FIAC Chair  
Craig Lewis Sr., FIAC Secretary  
Rob Kowkabany, FIAC  
Rodney Van Pelt, FIAC

**STAFF**

Tim Johnson, Executive Director – Plan Administrator  
Dan Holmes, Summit Strategies  
Debbie Manning, Executive Assistant  
Beth McCague, Consultant

**EXCUSED**

Devin Carter, Chief Financial Officer  
Steve Lundy, Pension Benefits Specialist/Economic Research

**NOTE:** Any person requiring a special accommodation to participate in the meeting because of disability shall contact the Executive Assistant at (904) 255-7373, at least five business days in advance of the meeting to make appropriate arrangements.

**I. CALL TO ORDER**

**II. PUBLIC SPEAKING PERIOD**

**III. APPROVAL OF JUNE 10, 2016 FIAC MEETING SUMMARY**

**IV. EXECUTIVE DIRECTOR’S REPORT** – *Tim Johnson and Beth McCague*

- **BOARD (COMMITTEE) BOOK**
- **REVIEW OF STAFF RECOMMENDATION REGARDING SELECTION OF NEW ACTUARY**

- **FIAC VACANCY**
- **ROLE OF THE FIAC**

**V. INVESTMENT CONSULTANT REPORTS** – *Dan Holmes w Summit Strategies*

- **FLASH REPORT – JULY 31, 2016**
- **MONTHLY ECONOMIC & CAPITAL MARKET UPDATE – JULY 2016**
- **STATEMENT OF INVESTMENT POLICY – EXECUTIVE SUMMARY**
- **REVIEW OF QUARTERLY FUND PERFORMANCE REVIEW**
- **PORTFOLIO REBALANCE TRANSITION UPDATE**

**VI. NEW BUSINESS**

**VII. ADJOURNMENT**

**NOTE:** If any person decides to appeal any decision made with respect to any matter considered at this public meeting such person will need a record of proceedings, and for such purpose such person may need to ensure that a verbatim record of the proceedings is made at their own expense and that such record includes the testimony and evidence on which the appeal is based. The public meeting may be continued to a date, time, and place to be specified on the record at the meeting.

***ADDITIONAL ITEMS MAY BE ADDED / OR CHANGED PRIOR TO MEETING***



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MEETING SUMMARY – JUNE 10, 2016  
RICHARD “DICK” COHEE BOARD ROOM**

***PFPF MISSION:***

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**PRESENT**

Eric “Brian” Smith Jr., FIAC Chair  
Michael Lukaszewski, Member Pending Council Approval  
Rodney Van Pelt, Member Pending Council Approval

**STAFF**

Beth McCague, Interim Executive Director – Plan Administrator  
Dan Holmes, Summit Strategies – via phone  
Steve Lundy, Pension Benefits Specialist / Economic Research

**EXCUSED**

Craig Lewis Sr., FIAC Secretary  
Rob Kowkabany, FIAC  
Devin Carter, Chief Financial Officer

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**CHAIRMAN BRIAN SMITH CALLED THE MEETING TO ORDER @ 3:42PM**

**MIKE LUKASZEWSKI, REFERRING TO THE LAST FIAC MEETING, ASKED, “IF OUR ALLOCATION PUTS US IN JUST THE 75<sup>th</sup> PERCENTILE, WHAT’S WRONG WITH OUR ALLOCATION? I’M SURPRISED DAN SAID HE COULDN’T RETREIVE THE INFORMATION FROM THEIR DATABASE. WE SHOULD ASK HIM, BECAUSE I WASN’T SATISFIED WITH HIS RESPONSE.”**

**BRIAN SMITH ASKED IF ROB KOWKABANY WILL BE IN ATTENDANCE.**

**BETH MCCAGUE INFORMED THE COMMITTEE THAT ROB KOWKABANY IS FEELING ILL AND WILL NOT BE ABLE TO ATTEND.**

#### **EXECUTIVE DIRECTOR UPDATE**

**BETH MCCAGUE STATED THAT TIMOTHY JOHNSON WAS SELECTED BY THE BOARD OF TRUSTEES TO BE THE FUND'S PERMANENT EXECUTIVE DIRECTOR – ADMINISTRATOR. “BOTH CANDIDATES WERE VERY STRONG. THE BOARD OF TRUSTEES WAS ALMOST AT A TOSS-UP. WHAT THE PFPF NEEDS MOST, ACCORDING TO THE BOARD, IS A LEADER WITH EXCELLENT COMMUNICATION SKILLS, WITH WHICH THEY COULD USE TO IMPROVE THE FUND'S RELATIONSHIP WITH THE CITY. THE BOARD SELECTED TIMOTHY BECAUSE OF HIS PUBLIC RELATIONS EXPERIENCE. BOTH CANDIDATES MET WITH CITY LEADERS AND BOTH WERE HIGHLY RECOMMENDED. BOTH CANDIDATES ALSO MET WITH ALL OF THE PFPF EMPLOYEES AND ASKED ABOUT THEIR DAILY ACTIVITIES.”**

**MIKE LUKASZEWSKI ASKED ABOUT THE PFPF STAFF, “HOW MANY EMPLOYEES DOES THE PFPF HAVE?”**

**BETH MCCAGUE REPLIED, “THERE ARE 7 EMPLOYEES, CHUCK, STEVE, DEBBIE, TROY, AGNES, AMY, AND LYNN”**

**LUKASZEWSKI ASKED HOW THE STAFF CALCULATES PENSIONS FOR INDIVIDUAL RETIREES.**

**BETH REPLIED, “THE STAFF USES THE CITY SYSTEM.”**

**BETH ASKED IF THE STAFF OR THE CITY PERFORMS CALCULATIONS.**

**STEVE LUNDY REPLIED, “YES, WE PERFORM CALCULATIONS OURSELVES BASED OFF OF THE CITY SYSTEM'S DATA IN ORDER TO ACCOMMODATE RETIREES' SPECIFIC UNIQUE SCENARIOS.”**

**BETH MCCAGUE THEN COMPARED THE PFPF TO TIMOTHY JOHNSON'S FUND, “TIM'S FUND IS ABOUT \$850 MILLION, WITH AROUND 40 MANAGERS. THEY SPEND A LOT OF TIME WITH LOCAL MANAGERS, WHICH IS A MORE SOCIALLY-ORIENTED APPROACH, WHEREAS OUR FUND IS STRICTLY FIDICUIARY.”**

**BETH MCCAGUE THEN UPDATED THE FIAC ON COUNCIL APPROVAL OF MIKE LUKASZEWSKI AND RODNEY VAN PELT**

**BETH MCCAGUE DISCUSSED THE DUTIES OF THE FIAC AS DESCRIBED BY THE ORDINANCE:**

**“THE FINANCIAL INVESTMENT ADVISORY COMMITTEE SHALL HAVE THE RESPONSIBILITY AND DUTY TO PROVIDE ADVICE TO THE JACKSONVILLE POLICE AND FIRE PENSION BOARD OF TRUSTEES (“BOARD”) ON:**

- 1. FINANCIAL MATTERS**
- 2. ACTUARIAL PRACTICES AND ASSUMPTIONS**
- 3. INVESTMENT STRATEGY AND POLICY**
- 4. THE SELECTION OF OUTSIDE FINANCIAL SERVICES PROVIDERS, INCLUDING INVESTMENT MANAGERS AND ADVISORS**
- 5. SUCH OTHER MATTERS AS REQUESTED BY THE BOARD”**

**BETH MCCAGUE SAID, “SO FAR WE’VE FOCUSED ON NUMBERS 3 & 4. AND WE HAVE COMPLETED ALL PLANNED WORK ON SCHEDULE. SOON WE WILL BE COMING TO YOU TO SEE IF YOU THINK WE WILL REQUIRE A BIGGER ACTUARIAL FIRM.”**

**RODNEY VAN PELT SAID, “I FELT THAT THE CITY COUNCIL WAS UNFAIRLY GRILLING US. IF THEY HAD A PROBLEM THEN THEY SHOULD HAVE COME TO US PRIVATELY AND NOT IN AN OPEN FORUM TO SHAME US.”**

**BETH MCCAGUE SAID, “I SENT A MESSAGE TO TOMMY HAZOURI THAT I WILL BE SEEING CRESCIMBENI SOON AND THAT YOU TWO (MIKE LUKASZEWSKI & RODNEY VAN PELT) ARE EMINENTLY QUALIFIED.”**

**RODNEY VAN PELT ASKED, “WHEN ARE WE GOING TO STEP BACK AND SEE EXACTLY WHEN THE FUND ‘DERAILED’ AND STARTED TO BECOME GROSSLY UNFUNDED?”**

**BRIAN SMITH REPLIED, “THE ANSWER WAS THE FUNDING BY THE CITY. ALTHOUGH THE CITY WOULD GIVE A DIFFERENT ANSWER.”**

**MIKE LUKASZEWSKI ADDED, “WE SHOULD REVISIT THIS HISTORY TO SEE DIFFERENCES IN INVESTMENT STRATEGIES BETWEEN NOW AND THEN AS WELL.”**

**BETH MCCAGUE SAID, “ONLY A PERCENTAGE OF BENEFITS PAID TO MEMBERS ARE FUNDED FROM INVESTMENT RETURNS. THE MAJORITY IS FROM FUNDING CONTRIBUTIONS.”**

**BRIAN SMITH STATED, “THE UNFUNDED LIABILITY PROBLEM IS NOT DUE TO POOR INVESTMENT PERFORMANCE. THAT IS WHY THE CITY IS THINKING OF NEW WAYS TO FUND THE PLAN TO MAKE UP FOR ALL THE YEARS IN WHICH THEY DID NOT CONTRIBUTE FULL AMOUNTS OF ACTIVE AND UNFUNDED LIABILITIES.”**

**RODNEY VAN PELT NOTED, “SINCE 2008, AN 8 PERCENT ASSUMED RATE OF RETURN IS NOT REALISTIC.”**

**BETH MCCAGUE REPLIED, “WHATEVER RATE WE SET HAS A GREAT EFFECT ON THE CITY’S CONTRIBUTION TO THE PLAN.”**

**MIKE LUKASZEWSKI SAID, “I THINK THE BOARD WILL CONSIDER OUR RECOMMENDATION ON AN ACTUARIAL RATE OF RETURN IF WE THINK IT SHOULD BE DIFFERENT FROM THE ACTUARY’S NUMBERS.”**

**BETH MCCAGUE REPLIED, "MAYBE IN AUGUST WE CAN BRING OUR ACTUARY IN TO SPEAK WITH THE FIAC. JARMON WELCH HAS BEEN THE FUND ACTUARY SINCE OUR PLAN STARTED. HE HAS GREAT INSTITUTIONAL KNOWLEDGE."**

**MIKE LUKASZEWSKI REQUESTED BETH TO EMAIL HIM THE LATEST ACTUARIAL REPORT. BETH AGREED.**

**RODNEY VAN PELT SAID, "I'M INTERESTED IN LOOKING AT PAST ACTUARIAL PREDICTIONS VERSUS THE ACTUAL RESULTS AND SEE IF THEY LINE UP."**

**BRIAN SMITH ASKED IF THE ACTUARIAL ASSUMED RATE OF RETURN IS NEGOTIATED.**

**BETH MCCAGUE ANSWERED, "THE ACTUARIAL ASSUMED RATE OF RETURN IS NEGOTIATED WITH THE CITY. OTHER PIECES SUCH AS THE MORTALITY TABLES ARE NEGOTIATED AS WELL."**

**MIKE LUKASZEWSKI REMARKED, "IT DOES NOT SIT WELL WITH ME TO NEGOTIATE AND NOT TO ACCEPT THE OFFICIAL MORTALITY TABLES JUST TO SAVE THE CITY MONEY IN CONTRIBUTIONS."**

**RODNEY VAN PELT ADDED, "IT'S GOING TO BE PROBLEMATIC TO ME IF THE CITY SAYS ARBITRARILY WHAT NUMBERS TO SET, DISREGARDING THE OFFICIAL REALISTIC NUMBERS."**

**MIKE LUKASZEWSKI SAID, "WE SHOULD BE ON RECORD AS WANTING REALISTIC ACTUARIAL NUMBERS."**

**BETH MCCAGUE SAID, "USUALLY THESE NUMBERS ARE NEGOTIATED AMONG THE CITY, THEIR ACTUARIES, US, AND OUR ACTUARIES."**

**BRIAN SMITH REMARKED, "IT MAKES ME WONDER IF ALL THE CITY'S FUSS ABOUT OUR UNFUNDED LIABILITY WOULD STILL BE THERE HAD THEY NOT CHANGED THE ASSUMED ACTUARIAL RATE OF RETURN – SINCE THE UNFUNDED PERCENTAGE WOULD HAVE DEFINITELY NOT BEEN AS LARGE."**

#### **INTERNATIONAL EQUITY MANAGER UPDATE**

**DAN HOLMES STATED THAT DOMESTIC EQUITY IS ALMOST UP 4% THIS CALENDAR YEAR, BONDS ARE UP OVER 4% AS WELL, MLPs CONTINUE TO MAKE THEIR COMEBACK BY BEING UP 12% THIS CALENDAR YEAR THROUGH LAST WEEK.**

**DAN HOLMES STATED BAILLE GIFFORD AND SILCHESTER ARE UP PAST THEIR BENCHMARKS.**

**DAN HOLMES SAID, "I RECOMMEND THAT WE ADD A NEW INTERNATIONAL MANAGER TO THE PORTFOLIO. WE HAVE HERE A PRESENTATION OF FOUR POTENTIAL NEW**

**MANAGERS. THEIR DIVERSIFICATION STRATEGIES COMPLEMENT THOSE OF EXISTING MANAGERS OF THE PORTFOLIO.”**

**RODNEY VAN PELT ASKED, “HOW MUCH IS IN THIS ASSET CLASS?”**

**DAN HOLMES REPLIED, “\$123 MILLION AS OF THE END OF APRIL.”**

**MIKE LUKASZEWSKI ASKED, “WE HAVE A LARGE ALLOCATION TO INTERNATIONAL EQUITY; HOW DOES THIS COMPARE TO OTHER FUNDS?”**

**DAN HOLMES REPLIED, “SLIGHTLY ABOVE MEDIAN. OUR POLICY TARGET IS 20%.”**

**RODNEY VAN PELT ASKED, “WHERE ARE WE RIGHT NOW?”**

**MIKE LUKASZEWSKI ANSWERED, “WE ARE AT 22%. IT SHOULD BE LOWERED AFTER THE REBALANCE.”**

**MIKE LUKASZEWSKI ASKED, “WHAT IS OUR DEFINITION OF INTERNATIONAL?”**

**DAN HOLMES REPLIED, “NO USA; TOTALLY INTERNATIONAL, NON-US COMPANIES.”**

**RODNEY VAN PELT ASKED, “WHY IS THERE NO INFORMATION ON ACADIAN?”**

**DAN HOLMES REPLIED, “THAT IS BECAUSE THEY ARE EMERGING MARKET. WE ARE LOOKING AT DEVELOPED MARKETS.”**

**DAN HOLMES SHIFTED THE FOCUS TO PAGE 15. HE STATED, “WE WANT MANAGERS THAT DON’T ACT LIKE EACH OTHER. ALL SUGGESTED MANAGERS HAVE LOW CORRELATION TO CURRENT MANAGERS IN THE PORTFOLIO.”**

**RODNEY VAN PELT ASKED, “WHAT ARE THE TYPICAL FEES?”**

**DAN HOLMES REPLIED, “BETWEEN 75-100 BASIS POINTS.”**

**MIKE LUKASZEWSKI REQUESTED THAT ALL NUMBERS BE PRESENTED NET OF FEES IN THE FUTURE.**

**BRIAN SMITH ASKED WHERE THE FOUR MANAGERS’ FEES ARE PRESENTED.**

**DAN HOLMES ANSWERED, “ON PAGE 3, YOU WILL SEE ARISTOTLE’S FEE SCHEDULE: 85 BASIS POINTS DOWNWARDS.”**

**MIKE LUKASZEWSKI ASKED WHY THE MUTUAL FUND FEE WAS SO HIGH.**

**DAN HOLMES REPLIED, “CUSTODY IS INCLUDED, IN ADDITION TO MANAGER FEES AND IT MAY BE OPEN TO RETAIL INVESTORS.”**

**MIKE LUKASZEWSKI NOTED, “LOOKS LIKE THE CITY OF LONDON IS NEWER.”**



**BRIAN SMITH COMMENTED, “THEIR FEE SCHEDULE LOOKS GOOD.”**

**DAN HOLMES STATED, “OUT OF THE FOUR, THEY ARE THE MOST DIFFERENT. THEY’RE ONLY AT \$92 MILLION THOUGH.”**

**MIKE LUKASZEWSKI SAID, “THAT IS TOO SMALL TO BE THROWING \$60 MILLION AT.”**

**DAN HOLMES WENT OVER THE PROS AND CONS OF CITY OF LONDON, “THEY HAVE A VERY SUCCESSFUL EMERGING MARKET PRODUCT. THEY INVEST IN CLOSED-END FUNDS. THEIR OPPORTUNITIES GOING FORWARD LOOK GOOD. THEY BUY FUNDS, NOT STOCKS – DISCOUNTED FUNDS, FOR A VARIETY OF REASONS.”**

**MIKE LUKASZEWSKI ASKED, “IF WE INVESTED IN THIS, WOULD WE OWN THE STOCKS IN THESE FUNDS? COULD WE DIRECT THE MANAGER TO INVEST?”**

**DAN REPLIED, “NO, THIS IS AT THE DISCRETION OF THE MANAGER.”**

**DAN HOLMES CONTINUED, “IF WE WERE TO ELIMINATE ONE OF THE MANAGERS FROM CONSIDERATION, IT SHOULD BE ARISTOTLE. TRINITY AND ARISTOTLE ARE SIMILAR, BUT TRINITY IS BETTER, EVEN CONSIDERING THEIR FEES.”**

**MIKE LUKASZEWSKI ADDED, “SINCE I’M NOT A VOTING MEMBER YET, LET ME STATE THAT I RECOMMEND WE INVITE ALL FOUR IN.”**

**DAN HOLMES SAID EARLY JULY WAS GOOD FOR HIM.**

**BRIAN SMITH SAID HE WILL BE OUT OF TOWN EARLY JULY.**

**BETH MCCAUGE STATED SHE WILL ALSO BE OUT OF TOWN THROUGHOUT MUCH OF THE MONTH.**

**BRIAN SMITH SAID, “LET’S MOVE ON TO THE TRANSITION DISCUSSION, SINCE WE DO NOT HAVE A QUORUM TO MAKE ANY DECISIONS.”**

#### **TRANSITION UPDATE**

**DAN HOLMES DIRECTED ATTENTION TO THE FIRST PAGE OF THE HANDOUT, “THIS PAGE REITERATES DECISIONS THAT WERE MADE SO FAR. THE SECOND PAGE SHOWS WHERE THE FLOW OF ASSETS WILL GO TO GET US BACK TO THE TARGET.”**

**DAN HOLMES THEN DESCRIBED THE PROCESS OF THE TRANSITION OF SECURITIES THROUGH PORTFOLIOS BETWEEN MANAGERS.**

**MIKE LUKASZEWSKI ASKED HOW THE PRICE WAS DETERMINED.**

**DAN HOLMES ANSWERED, “THE REMAINING SECURITIES ARE SOLD ON THE OPEN MARKET. THE TRANSITION SHOULDN’T TAKE MORE THAN A WEEK, ALTHOUGH I THINK IT’LL FINISH IN 2-3 DAYS. POST TRANSITION, WE WILL SHOW THE RESULTS.”**

**BRIAN SMITH ASKED, “ARE WE ON SILCHESTER’S WAITING LIST?”**

**DAN HOLMES CONFIRMED.**

**RODNEY VAN PELT ASKED, “COULD WE GET THE HISTORY ON ARISTOTLE AND CITY OF LONDON? WHERE THEIR MANAGERS WERE BEFORE THESE FIRMS?”**

**DAN HOLMES REPLIED, “YES. I ALSO KNOW SOME CAME FROM ‘MET WEST’.”**

**BRIAN SMITH REQUESTED, “LET’S GET A LIST, DAN. FIND THEIR HISTORY OF WORK BEFORE THEY WORKED AT THESE FIRMS, GIVEN THESE FIRMS SHORT HISTORY.”**

**LUKASZEWSKI AGREED, AND ADDED, “I’M WARY OF GIVING \$123 MILLION TO A COMPLETELY NEW MANAGER. A LIST OF THEIR HISTORIES WOULD HELP US MAKE A BETTER INFORMED DECISION.”**

**CHAIRMAN SMITH ADJOURNED THE MEETING AT 5:19 PM.**

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Craig Lewis, Secretary



## **POLICE AND FIRE PENSION FUND**

One West Adams Street, Suite 100  
Jacksonville, FL 32202-3616

Phone Number (904) 255-7373  
Fax Number (904) 353-8837



## **M E M O R A N D U M**

**Date:** September 9, 2016  
**To:** PFPF Board and Committees  
**From:** T.H. Johnson  
**Subject:** Board (Committee) Book

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Each of you operates under newly enacted pension reform ordinances which include new benefit designs and new governance structures. You need tools that help you discharge complex responsibilities. That is the purpose of this book.

Each month you will receive a book with all your meetings materials. You will no longer receive random information from staff. Instead, you will receive your book up to a week in advance so that you can properly prepare for scheduled meetings. It is structure in a consistent format which follows a revised agenda outline. The book identifies challenges and issues for you to work through and resolve. You should be confident that the information you receive is relevant, timely and properly vetted. I want to leverage your time and talent as you to guide and oversee the PFPF.

Best practices like this – the use of board books - are shown to increase asset value and member satisfaction. This helps assure the organization adheres to its stated mission. If done well these books will record your insights, recommendations and decisions for future PFPF fiduciaries so that they can build on a solid foundation of past success.



# POLICE AND FIRE PENSION FUND

ONE WEST ADAMS STREET, SUITE 100  
JACKSONVILLE, FLORIDA 32202-3616

*"We Serve...and We Protect"*

September 9, 2016

## **Consultant's Report to the Finance Investment & Advisory Committee**

Phone: (904) 255-7373

Fax: (904) 353-8837

### **1. Review of Staff Assessment of Actuarial Proposals**

*8 firms responded to the RFP. Staff has rated each of the proposals and recommends inviting three of the proposers in for interviews with FIAC and the Board.*

*The process to date has been staff review and scoring of each proposal utilizing the attached matrix.*

*At the FIAC meeting we will have copies of each of the proposals available to you and we will discuss the rating system along with our recommendations for interviews.*

*We will schedule the interviews in October. Staff, FIAC and Board members will be invited to attend the interviews.*

*At the conclusion of the interviews, staff and FIAC members will meet separately to rank the interviews.*

*The staff and FIAC will reconvene to share rankings. The FIAC will prepare its recommendation to the Board.*

*The Board will consider the recommendation at the October meeting and make its decision. The contract will be negotiated with the selected firm.*

*Once the contract negotiations are complete the other firms will be notified.*

### **2. Committee Vacancy**

*The FIAC is a 5 member committee. John P. Ward is considering joining the Committee.*

### **3. Develop an Operating Structure for the Financial Investment & Advisory Committee**

*The FIAC, established as part of Pension Reform 304E, can be a valuable resource to the Board of Trustees. This Committee should be known and respected throughout the Community for its investment and finance acumen.*

*A defined annual program of work will be developed to further educate and engage the Committee members. It is in the best interest of the Fund that these Committee members are directed to the most important finance and investment decision points so their considerable expertise and advice can guide the Board on these most important matters.*





**Summit** Strategies Group

*8182 Maryland Avenue, 6th Floor*

*St. Louis, Missouri 63105*

*314.727.7211*

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

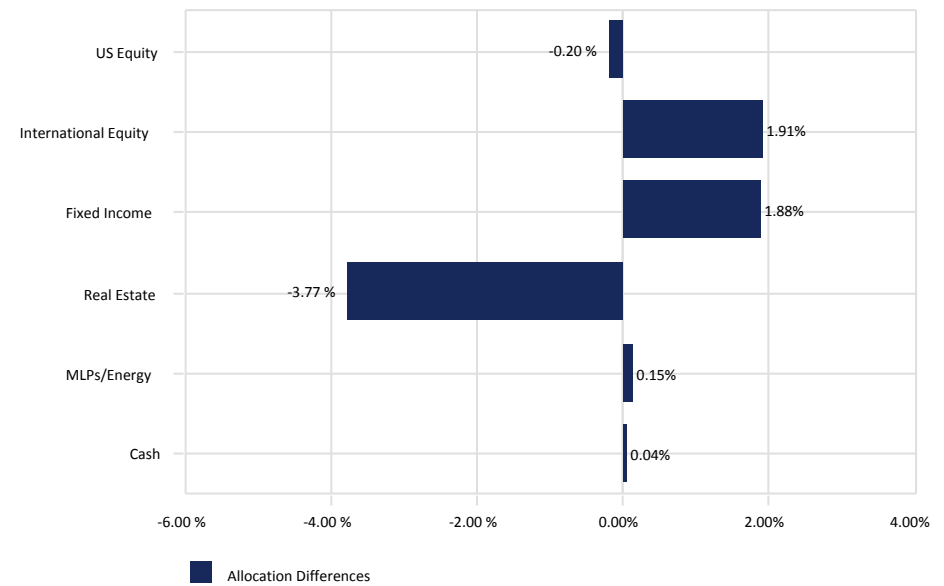
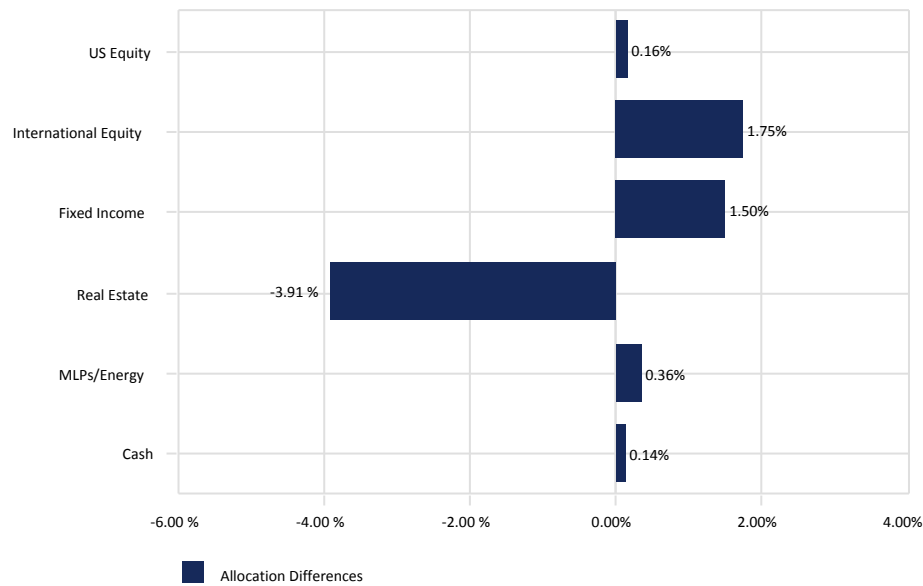
Flash Report

**July 31, 2016**

# City of Jacksonville Police & Fire Pension Fund

## Asset Allocation vs. Target Allocation

July 31, 2016



July 31, 2016

	<u>Market Value</u> <u>(\$)</u>	<u>Allocation</u> <u>(%)</u>	<u>Target</u> <u>(%)</u>
US Equity	660,813,608	39.16	39.00
International Equity	367,056,396	21.75	20.00
Fixed Income	371,210,988	22.00	20.50
Real Estate	187,170,698	11.09	15.00
MLPs/Energy	98,982,125	5.86	5.50
Cash	2,447,081	0.14	0.00
Total Fund	1,687,680,896	100.00	100.00

April 30, 2016

	<u>Market Value</u> <u>(\$)</u>	<u>Allocation</u> <u>(%)</u>	<u>Target</u> <u>(%)</u>
US Equity	631,060,101	38.80	39.00
International Equity	356,308,200	21.91	20.00
Fixed Income	364,024,716	22.38	20.50
Real Estate	182,615,906	11.23	15.00
MLPs/Energy	91,860,475	5.65	5.50
Cash	706,663	0.04	0.00
Total Fund	1,626,576,061	100.00	100.00



## City of Jacksonville Police & Fire Pension Fund

Asset Allocation & Performance Gross of Fees

July 31, 2016

	Asset \$	Asset %	Performance(%)							
			1 Month	3 Month	CYTD	FYTD	1 Year	3 Year	5 Year	10 Year
Total Fund Composite	1,687,680,896	100.00	3.31	4.07	6.14	9.80	1.79	6.52	7.98	6.25
<i>Total Fund Policy</i>			<i>2.75</i>	<i>4.05</i>	<i>6.75</i>	<i>9.71</i>	<i>2.65</i>	<i>6.65</i>	<i>8.00</i>	<i>5.84</i>
Excess Return			0.56	0.02	-0.61	0.09	-0.86	-0.13	-0.02	0.41
Total Equity	1,027,870,003	60.90	5.12	4.72	5.94	11.78	0.21	6.80	8.90	-
US Equity	660,813,608	39.16	4.79	5.62	6.53	13.16	2.23	8.77	12.14	7.90
<i>US Equity Index</i>			<i>3.97</i>	<i>6.05</i>	<i>7.74</i>	<i>14.49</i>	<i>4.44</i>	<i>10.59</i>	<i>12.99</i>	<i>7.91</i>
Excess Return			0.82	-0.43	-1.21	-1.33	-2.21	-1.82	-0.85	-0.01
International Equity	367,056,396	21.75	5.65	3.05	4.81	9.04	-3.78	3.03	2.27	2.02
<i>International Equity Index</i>			<i>4.97</i>	<i>1.78</i>	<i>4.27</i>	<i>7.71</i>	<i>-5.08</i>	<i>1.80</i>	<i>1.81</i>	<i>2.00</i>
Excess Return			0.68	1.27	0.54	1.33	1.30	1.23	0.46	0.02
Fixed Income	371,210,988	22.00	0.81	2.54	6.08	5.37	5.59	3.92	3.44	4.96
<i>Barclays Aggregate</i>			<i>0.63</i>	<i>2.47</i>	<i>5.98</i>	<i>5.37</i>	<i>5.93</i>	<i>4.23</i>	<i>3.57</i>	<i>5.06</i>
Excess Return			0.18	0.07	0.10	0.00	-0.34	-0.31	-0.13	-0.10
Real Estate	187,170,698	11.09	0.77	2.53	4.92	8.38	11.17	12.77	13.10	8.07
<i>NCREIF Fund Index - ODCE [M]</i>			<i>0.00</i>	<i>2.13</i>	<i>4.36</i>	<i>7.85</i>	<i>11.82</i>	<i>13.00</i>	<i>12.72</i>	<i>6.17</i>
Excess Return			0.77	0.40	0.56	0.53	-0.65	-0.23	0.38	1.90
<i>NCREIF Property Index</i>			<i>0.00</i>	<i>2.03</i>	<i>4.29</i>	<i>7.33</i>	<i>10.64</i>	<i>11.61</i>	<i>11.52</i>	<i>7.41</i>
MLPs/Energy	98,982,125	5.86	0.84	7.75	12.52	11.61	-12.07	0.77	9.67	-
<i>S&amp;P MLP Index</i>			<i>1.55</i>	<i>9.59</i>	<i>16.46</i>	<i>8.65</i>	<i>-13.90</i>	<i>-5.03</i>	<i>4.12</i>	<i>-</i>
Excess Return			-0.71	-1.84	-3.94	2.96	1.83	5.80	5.55	-
Cash	2,447,081	0.14	0.01	0.07	0.11	0.16	0.18	0.67	0.69	3.52

## City of Jacksonville Police & Fire Pension Fund

Asset Allocation & Performance Gross of Fees

July 31, 2016

	Performance(%)											
	Asset \$	Asset %	1 Month	3 Month	CYTD	FYTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
US Equity												
NT S&P 500 Index Fund	185,443,731	10.99	3.68	5.82	7.71	15.31	5.66	11.23	13.43	7.77	5.27	Jan-1999
<i>S&amp;P 500</i>			3.69	5.82	7.66	15.25	5.61	11.16	13.38	7.75	5.26	
Excess Return			-0.01	0.00	0.05	0.06	0.05	0.07	0.05	0.02	0.01	
Eagle Capital Management	170,756,580	10.12	3.34	3.35	1.75	8.46	-2.40	9.65	13.45	-	12.37	Apr-2011
<i>Russell 1000 Value Index</i>			2.90	5.41	9.38	15.55	5.38	8.99	12.75	-	11.10	
Excess Return			0.44	-2.06	-7.63	-7.09	-7.78	0.66	0.70	-	1.27	
GAMCO	33,723	0.00										
Brown Investment Advisory	85,816,584	5.08	3.99	3.61	2.63	10.65	1.80	-	-	-	8.20	Nov-2013
<i>Russell 1000 Growth Index</i>			4.72	6.33	6.15	13.91	4.35	-	-	-	11.26	
Excess Return			-0.73	-2.72	-3.52	-3.26	-2.55	-	-	-	-3.06	
Sawgrass Asset Management	89,724,823	5.32	3.20	6.97	7.96	14.51	6.22	-	-	-	11.38	Nov-2013
<i>Russell 1000 Growth Index</i>			4.72	6.33	6.15	13.91	4.35	-	-	-	11.26	
Excess Return			-1.52	0.64	1.81	0.60	1.87	-	-	-	0.12	
Wedge Capital Mgmt	64,695,586	3.83										
DePrince Race & Zollo	88,392	0.01										
Pinnacle	64,254,190	3.81	7.45	6.20	-0.84	9.52	-3.85	7.09	11.57	-	21.22	Mar-2009
<i>Russell 2500 Growth Index</i>			5.94	7.77	5.91	9.94	-3.35	8.56	11.42	-	20.01	
Excess Return			1.51	-1.57	-6.75	-0.42	-0.50	-1.47	0.15	-	1.21	
International Equity												
NT EAFE Index Fund	124,489,554	7.38	5.07	0.75	0.74	5.39	-7.28	2.30	-	-	5.22	Apr-2012
<i>MSCI EAFE Index (Net)</i>			5.07	0.62	0.42	5.15	-7.53	2.00	-	-	4.91	
Excess Return			0.00	0.13	0.32	0.24	0.25	0.30	-	-	0.31	
Baillie Gifford	92,724,533	5.49	5.51	4.24	3.10	9.55	-4.57	2.97	4.50	-	4.30	Mar-2011
<i>MSCI EAFE Growth Index (Net)</i>			4.89	2.77	2.56	9.40	-2.50	4.23	4.37	-	4.06	
Excess Return			0.62	1.47	0.54	0.15	-2.07	-1.26	0.13	-	0.24	
Silchester	63,575,560	3.77	5.70	0.20	4.54	8.08	-3.32	5.93	-	-	6.10	Sep-2013
<i>MSCI EAFE Value Index (Net)</i>			5.26	-1.56	-1.74	0.89	-12.51	-0.29	-	-	0.16	
Excess Return			0.45	1.76	6.28	7.19	9.19	6.22	-	-	5.94	
Acadian Emerging Mkts Equity II Fund	86,266,748	5.11	6.61	7.54	13.65	13.03	0.38	-	-	-	-1.57	Jan-2014
<i>MSCI Emerging Markets (Net)</i>			5.03	5.16	11.77	12.50	-0.75	-	-	-	-2.76	
Excess Return			1.58	2.38	1.88	0.53	1.13	-	-	-	1.19	

## City of Jacksonville Police & Fire Pension Fund

Asset Allocation & Performance Gross of Fees

July 31, 2016

	Performance(%)											
	Asset \$	Asset %	1 Month	3 Month	CYTD	FYTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Fixed Income												
NTGI Aggregate Bond Index	167,643,821	9.93	0.63	2.49	6.06	5.41	6.00	4.29	-	-	3.13	Feb-2013
Barclays Aggregate			0.63	2.47	5.98	5.37	5.93	4.23	-	-	3.14	
Excess Return			0.00	0.02	0.08	0.04	0.07	0.06	-	-	-0.01	
Eaton Vance Instl Senior Loan Trust	40,523,766	2.40	1.28	1.98	5.99	3.87	3.10	2.97	-	-	3.21	Mar-2013
CS Leveraged Loan Index			1.41	2.36	5.69	3.62	2.26	3.16	-	-	3.47	
Excess Return			-0.13	-0.38	0.30	0.25	0.84	-0.19	-	-	-0.26	
Thompson Siegel Fixed	163,042,986	9.66	0.88	2.72	6.12	5.75	6.07	4.54	4.31	5.62	6.41	Aug-1991
Thompson Policy Index			0.63	2.47	5.98	5.37	5.93	4.23	3.57	4.99	6.20	
Excess Return			0.25	0.25	0.14	0.38	0.14	0.31	0.74	0.63	0.21	
Real Estate												
JP Morgan	142,499,558	8.44	0.79	2.32	4.76	8.30	10.77	12.59	12.91	6.86	8.30	Apr-2005
NCREIF Fund Index - ODCE [M]			0.00	2.13	4.36	7.85	11.82	13.00	12.72	6.17	7.55	
Excess Return			0.79	0.19	0.40	0.45	-1.05	-0.41	0.19	0.69	0.75	
Principal Global Investments	44,671,140	2.65	0.71	3.20	5.43	8.64	12.46	13.34	-	-	13.61	Apr-2013
NCREIF Fund Index - ODCE [M]			0.00	2.13	4.36	7.85	11.82	13.00	-	-	12.90	
Excess Return			0.71	1.07	1.07	0.79	0.64	0.34	-	-	0.71	
MLPs/Energy												
Harvest MLP	49,811,694	2.95	1.06	9.00	14.18	9.83	-13.01	0.33	9.43	-	9.95	Mar-2011
S&P MLP Index			1.55	9.59	16.46	8.65	-13.90	-5.03	4.12	-	3.23	
Excess Return			-0.49	-0.59	-2.28	1.18	0.89	5.36	5.31	-	6.72	
Tortoise MLP	49,170,431	2.91	0.62	6.52	10.88	13.47	-11.09	1.11	9.85	-	9.44	Mar-2011
S&P MLP Index			1.55	9.59	16.46	8.65	-13.90	-5.03	4.12	-	3.23	
Excess Return			-0.93	-3.07	-5.58	4.82	2.81	6.14	5.73	-	6.21	
Cash	2,447,081	0.14	0.01	0.07	0.11	0.16	0.18	0.67	0.69	3.52	8.60	Dec-1998

## City of Jacksonville Police & Fire Pension Fund

Asset Allocation & Performance Net of Fees

July 31, 2016

	Asset \$	Asset %	Performance(%)							
			1 Month	3 Month	CYTD	FYTD	1 Year	3 Year	5 Year	10 Year
Total Fund Composite	1,687,680,896	100.00	3.28	3.95	5.88	9.42	1.35	6.03	7.49	5.90
<i>Total Fund Policy</i>			<i>2.75</i>	<i>4.05</i>	<i>6.75</i>	<i>9.71</i>	<i>2.65</i>	<i>6.65</i>	<i>8.00</i>	<i>5.84</i>
Excess Return			0.53	-0.10	-0.87	-0.29	-1.30	-0.62	-0.51	0.06
Total Equity	1,027,870,003	60.90	5.11	4.58	5.66	11.38	-0.20	6.31	8.38	-
US Equity	660,813,608	39.16	4.79	5.48	6.23	12.73	1.79	8.23	11.56	7.55
<i>US Equity Index</i>			<i>3.97</i>	<i>6.05</i>	<i>7.74</i>	<i>14.49</i>	<i>4.44</i>	<i>10.59</i>	<i>12.99</i>	<i>7.91</i>
Excess Return			0.82	-0.57	-1.51	-1.76	-2.65	-2.36	-1.43	-0.36
International Equity	367,056,396	21.75	5.64	2.90	4.57	8.71	-4.15	2.63	1.88	1.68
<i>International Equity Index</i>			<i>4.97</i>	<i>1.78</i>	<i>4.27</i>	<i>7.71</i>	<i>-5.08</i>	<i>1.80</i>	<i>1.81</i>	<i>2.00</i>
Excess Return			0.67	1.12	0.30	1.00	0.93	0.83	0.07	-0.32
Fixed Income	371,210,988	22.00	0.81	2.52	6.02	5.27	5.45	3.77	3.28	4.85
<i>Barclays Aggregate</i>			<i>0.63</i>	<i>2.47</i>	<i>5.98</i>	<i>5.37</i>	<i>5.93</i>	<i>4.23</i>	<i>3.57</i>	<i>5.06</i>
Excess Return			0.18	0.05	0.04	-0.10	-0.48	-0.46	-0.29	-0.21
Real Estate	187,170,698	11.09	0.58	2.30	4.43	7.62	10.15	11.71	12.08	7.42
<i>NCREIF Fund Index - ODCE [M]</i>			<i>0.00</i>	<i>2.13</i>	<i>4.36</i>	<i>7.85</i>	<i>11.82</i>	<i>13.00</i>	<i>12.72</i>	<i>6.17</i>
Excess Return			0.58	0.17	0.07	-0.23	-1.67	-1.29	-0.64	1.25
<i>NCREIF Property Index</i>			<i>0.00</i>	<i>2.03</i>	<i>4.29</i>	<i>7.33</i>	<i>10.64</i>	<i>11.61</i>	<i>11.52</i>	<i>7.41</i>
MLPs/Energy	98,982,125	5.86	0.84	7.58	12.09	10.96	-12.76	0.00	8.89	-
<i>S&amp;P MLP Index</i>			<i>1.55</i>	<i>9.59</i>	<i>16.46</i>	<i>8.65</i>	<i>-13.90</i>	<i>-5.03</i>	<i>4.12</i>	<i>-</i>
Excess Return			-0.71	-2.01	-4.37	2.31	1.14	5.03	4.77	-
Cash	2,447,081	0.14	0.01	0.07	0.11	0.16	0.18	0.67	0.34	3.34

## City of Jacksonville Police & Fire Pension Fund

Asset Allocation & Performance Net of Fees

July 31, 2016

	Performance(%)											
	Asset \$	Asset %	1 Month	3 Month	CYTD	FYTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
US Equity												
NT S&P 500 Index Fund	185,443,731	10.99	3.68	5.82	7.70	15.29	5.65	11.19	13.39	7.73	5.25	Jan-1999
<i>S&amp;P 500</i>			3.69	5.82	7.66	15.25	5.61	11.16	13.38	7.75	5.26	
Excess Return			-0.01	0.00	0.04	0.04	0.04	0.03	0.01	-0.02	-0.01	
Eagle Capital Management	170,756,580	10.12	3.34	3.16	1.38	7.87	-2.93	8.84	12.60	-	11.58	Apr-2011
<i>Russell 1000 Value Index</i>			2.90	5.41	9.38	15.55	5.38	8.99	12.75	-	11.10	
Excess Return			0.44	-2.25	-8.00	-7.68	-8.31	-0.15	-0.15	-	0.48	
GAMCO	33,723	0.00										
Brown Investment Advisory	85,816,584	5.08	3.99	3.52	2.50	10.44	1.56	-	-	-	8.00	Nov-2013
<i>Russell 1000 Growth Index</i>			4.72	6.33	6.15	13.91	4.35	-	-	-	11.26	
Excess Return			-0.73	-2.81	-3.65	-3.47	-2.79	-	-	-	-3.26	
Sawgrass Asset Management	89,724,823	5.32	3.15	6.92	7.84	14.34	6.05	-	-	-	11.13	Nov-2013
<i>Russell 1000 Growth Index</i>			4.72	6.33	6.15	13.91	4.35	-	-	-	11.26	
Excess Return			-1.57	0.59	1.69	0.43	1.70	-	-	-	-0.13	
Wedge Capital Mgmt	64,695,586	3.83										
DePrince Race & Zollo	88,392	0.01										
Pinnacle	64,254,190	3.81	7.45	6.01	-1.21	8.92	-4.57	6.29	10.73	-	20.52	Mar-2009
<i>Russell 2500 Growth Index</i>			5.94	7.77	5.91	9.94	-3.35	8.56	11.42	-	20.01	
Excess Return			1.51	-1.76	-7.12	-1.02	-1.22	-2.27	-0.69	-	0.51	
International Equity												
NT EAFE Index Fund	124,489,554	7.38	5.07	0.75	0.73	5.36	-7.31	2.23	-	-	5.16	Apr-2012
<i>MSCI EAFE Index (Net)</i>			5.07	0.62	0.42	5.15	-7.53	2.00	-	-	4.91	
Excess Return			0.00	0.13	0.31	0.21	0.22	0.23	-	-	0.25	
Baillie Gifford	92,724,533	5.49	5.51	4.24	2.96	9.26	-4.97	2.48	4.00	-	3.85	Mar-2011
<i>MSCI EAFE Growth Index (Net)</i>			4.89	2.77	2.56	9.40	-2.50	4.23	4.37	-	4.06	
Excess Return			0.62	1.47	0.40	-0.14	-2.47	-1.75	-0.37	-	-0.21	
Silchester	63,575,560	3.77	5.63	0.01	4.06	7.38	-4.07	5.11	-	-	5.26	Sep-2013
<i>MSCI EAFE Value Index (Net)</i>			5.26	-1.56	-1.74	0.89	-12.51	-0.29	-	-	0.16	
Excess Return			0.38	1.57	5.80	6.49	8.44	5.40	-	-	5.10	
Acadian Emerging Mkts Equity II Fund	86,266,748	5.11	6.61	7.00	13.08	12.46	-0.13	-	-	-	-1.97	Jan-2014
<i>MSCI Emerging Markets (Net)</i>			5.03	5.16	11.77	12.50	-0.75	-	-	-	-2.76	
Excess Return			1.58	1.84	1.31	-0.04	0.62	-	-	-	0.79	

## City of Jacksonville Police & Fire Pension Fund

Asset Allocation & Performance Net of Fees

July 31, 2016

	Performance(%)											
	Asset \$	Asset %	1 Month	3 Month	CYTD	FYTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inception Date
Fixed Income												
NTGI Aggregate Bond Index	167,643,821	9.93	0.63	2.49	6.05	5.39	5.98	4.26	-	-	3.10	Feb-2013
<i>Barclays Aggregate</i>			0.63	2.47	5.98	5.37	5.93	4.23	-	-	3.14	
Excess Return			0.00	0.02	0.07	0.02	0.05	0.03	-	-	-0.04	
Eaton Vance Instl Senior Loan Trust	40,523,766	2.40	1.28	1.98	5.85	3.59	2.67	2.49	-	-	2.73	Mar-2013
<i>CS Leveraged Loan Index</i>			1.41	2.36	5.69	3.62	2.26	3.16	-	-	3.47	
Excess Return			-0.13	-0.38	0.16	-0.03	0.41	-0.67	-	-	-0.74	
Thompson Siegel Fixed	163,042,986	9.66	0.88	2.68	6.03	5.61	5.89	4.37	4.15	5.51	6.36	Aug-1991
<i>Thompson Policy Index</i>			0.63	2.47	5.98	5.37	5.93	4.23	3.57	4.99	6.20	
Excess Return			0.25	0.21	0.05	0.24	-0.04	0.14	0.58	0.52	0.16	
Real Estate												
JP Morgan	142,499,558	8.44	0.54	2.07	4.25	7.50	9.68	11.49	11.86	6.20	7.71	Apr-2005
<i>NCREIF Fund Index - ODCE [M]</i>			0.00	2.13	4.36	7.85	11.82	13.00	12.72	6.17	7.55	
Excess Return			0.54	-0.06	-0.11	-0.35	-2.14	-1.51	-0.86	0.03	0.16	
Principal Global Investments	44,671,140	2.65	0.71	3.07	5.01	7.99	11.64	12.44	-	-	12.69	Apr-2013
<i>NCREIF Fund Index - ODCE [M]</i>			0.00	2.13	4.36	7.85	11.82	13.00	-	-	12.90	
Excess Return			0.71	0.94	0.65	0.14	-0.18	-0.56	-	-	-0.21	
MLPs/Energy												
Harvest MLP	49,811,694	2.95	1.06	8.83	13.73	9.17	-13.72	-0.44	8.63	-	9.20	Mar-2011
<i>S&amp;P MLP Index</i>			1.55	9.59	16.46	8.65	-13.90	-5.03	4.12	-	3.23	
Excess Return			-0.49	-0.76	-2.73	0.52	0.18	4.59	4.51	-	5.97	
Tortoise MLP	49,170,431	2.91	0.62	6.34	10.46	12.83	-11.77	0.34	9.09	-	8.74	Mar-2011
<i>S&amp;P MLP Index</i>			1.55	9.59	16.46	8.65	-13.90	-5.03	4.12	-	3.23	
Excess Return			-0.93	-3.25	-6.00	4.18	2.13	5.37	4.97	-	5.51	
Cash	2,447,081	0.14	0.01	0.07	0.11	0.16	0.18	0.67	0.34	3.34	8.49	Dec-1998

## City of Jacksonville Police & Fire Pension Fund

Benchmark Composition Total Fund & US Equity & International Equity

As of July 31, 2016

### Total Fund Policy Index

	<u>(%)</u>
<b>Mar-2016</b>	
Russell 3000 Index	39.00
MSCI AC World ex USA (Net)	20.00
Barclays Aggregate	20.50
NCREIF Fund Index - ODCE [M]	15.00
S&P MLP Index	5.50
<b>Mar-2013</b>	
Russell 3000 Index	35.00
MSCI AC World ex USA (Net)	20.00
Barclays Aggregate	22.50
NCREIF Fund Index - ODCE [M]	15.00
S&P MLP Index	7.50
<b>Apr-2012</b>	
Russell 3000 Index	40.00
MSCI AC World ex USA (Net)	20.00
Barclays Aggregate	25.00
NCREIF Fund Index - ODCE [M]	10.00
S&P MLP Index	5.00
<b>Jun-2011</b>	
Russell 3000 Index	40.00
MSCI EAFE Index	20.00
Barclays Aggregate	25.00
NCREIF Fund Index - ODCE [M]	10.00
S&P MLP Index	5.00

### Jul-2009

Russell 3000 Index	40.00
MSCI EAFE Index	20.00
Barclays Aggregate	25.00
NCREIF Fund Index - ODCE [M]	15.00

### Oct-2008

Dow Jones US Total Stock Market Index	50.00
MSCI EAFE Index	10.00
BofA Merrill Lynch Gov Corp Master	30.00
NCREIF Fund Index - ODCE [M]	10.00

### Apr-1989

Dow Jones US Total Stock Market Index	50.00
MSCI EAFE Index	10.00
BofA Merrill Lynch Gov Corp Master	35.00
NCREIF Fund Index - ODCE [M]	5.00

### US Equity Index

	<u>(%)</u>
<b>Jul-2009</b>	
Russell 3000 Index	100.00
<b>Jan-1988</b>	
Dow Jones US Total Stock Market Index	100.00

### International Equity Index

	<u>(%)</u>
<b>Oct-2009</b>	
MSCI AC World ex USA	100.00
<b>Feb-1999</b>	
MSCI EAFE Index	100.00

### Thompson Siegal Policy

	<u>(%)</u>
<b>Oct-2009</b>	
Barclays Aggregate	100.00
<b>Dec-1975</b>	
BofA Merrill Lynch Gov Corp Master	100.00

**City of Jacksonville Police & Fire Fund**  
**Asset Allocation as of July 31, 2016**

	% Current Target	% Actual	% Difference from Current Target	\$ Current Target	\$ Actual	\$ Difference
<b>A. Total Equity</b>	<b>59.00%</b>	<b>60.90%</b>	<b>1.90%</b>	<b>\$995,731,728</b>	<b>\$1,027,870,003</b>	<b>\$32,138,275</b>
1. <b>Domestic Large Cap Equity (70% of Domestic)</b>	31.40%	31.51%	0.11%	529,931,801	531,775,440	1,843,639
NT S&P 500 Index Fund		10.99%	10.99%		185,443,731	185,443,731
Eagle Capital Management		10.12%	10.12%		170,756,580	170,756,580
GAMCO		0.00%	0.00%		33,723	33,723
Brown Advisory		5.08%	5.08%		85,816,584	85,816,584
Sawgrass Asset Management		5.32%	5.32%		89,724,823	89,724,823
2. <b>Domestic Small/Mid Cap Equity (30% of Domestic)</b>	7.60%	7.65%	0.05%	128,263,748	129,038,168	774,420
Wedge Capital Mgmt		3.83%	3.83%		64,695,586	64,695,586
DePrince Race & Zollo		0.01%	0.01%		88,392	88,392
Pinnacle		3.81%	3.81%		64,254,190	64,254,190
3. <b>International Equity Developed</b>	14.00%	16.64%	2.64%	236,275,325	280,789,647	44,514,322
NT EAFE Index Fund		7.38%	7.38%		124,489,554	124,489,554
Baillie Gifford		5.49%	5.49%		92,724,533	92,724,533
Silchester		3.77%	3.77%		63,575,560	63,575,560
4. <b>International Emerging Markets</b>	6.00%	5.11%	(0.89%)	101,260,854	86,266,748	(14,994,106)
Acadian Emerging Markets		5.11%	5.11%		86,266,748	86,266,748
<b>B. Total Fixed Income</b>	<b>20.50%</b>	<b>22.14%</b>	<b>1.64%</b>	<b>\$345,974,584</b>	<b>\$373,658,069</b>	<b>\$27,683,485</b>
1. <b>Core Fixed Income</b>	4.00%	19.59%	15.59%	67,507,236	330,686,807	263,179,571
NTGI Aggregate Bond Index		9.93%	9.93%		167,643,821	167,643,821
Thompson Siegel Fixed		9.66%	9.66%		163,042,986	163,042,986
2. <b>Core Plus</b>	15.50%	0.00%	(15.50%)	261,590,539	0	(261,590,539)
Manager TBD		0.00%	0.00%		0	0
3. <b>Senior Bank Notes</b>	0.00%	2.40%	2.40%	0	40,523,766	40,523,766
Eaton Vance Instl Senior Loan Trust		2.40%	2.40%		40,523,766	40,523,766
4. <b>TIPS</b>	0.00%	0.00%	0.00%	0	415	415
NTGI TIPS		0.00%	0.00%		415	415
5. <b>Emerging Market Debt</b>	0.00%	0.00%	0.00%	0	0	0
Manager TBD		0.00%	0.00%		0	0
6. <b>Cash/Paid Receipts</b>	1.00%	0.14%	(0.86%)	16,876,809	2,447,081	(14,429,728)
<b>C. Total Real Assets</b>	<b>20.50%</b>	<b>16.96%</b>	<b>(3.54%)</b>	<b>\$345,974,584</b>	<b>\$286,152,823</b>	<b>(\$59,821,760)</b>
1. <b>Real Estate</b>	15.00%	11.09%	(3.91%)	253,152,134	187,170,698	(65,981,436)
JPM RE Strategic Property	5.00%	8.44%	3.44%	84,384,045	142,499,558	58,115,513
Principal Global Investments	5.00%	2.65%	(2.35%)	84,384,045	44,671,140	(39,712,905)
Non-Core Real Estate (TBD)	5.00%	0.00%	(5.00%)	84,384,045	0	(84,384,045)
2. <b>MLPs / Timber / Commodities</b>	5.50%	5.86%	0.36%	92,822,449	98,982,125	6,159,676
Harvest MLP		2.95%	2.95%		49,811,694	49,811,694
Tortoise MLP		2.91%	2.91%		49,170,431	49,170,431
<b>D. TOTAL FUND</b>	<b>100.00%</b>	<b>100.00%</b>			<b>\$1,687,680,896</b>	



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**Monthly Economic & Capital Market Update**

*July 2016*

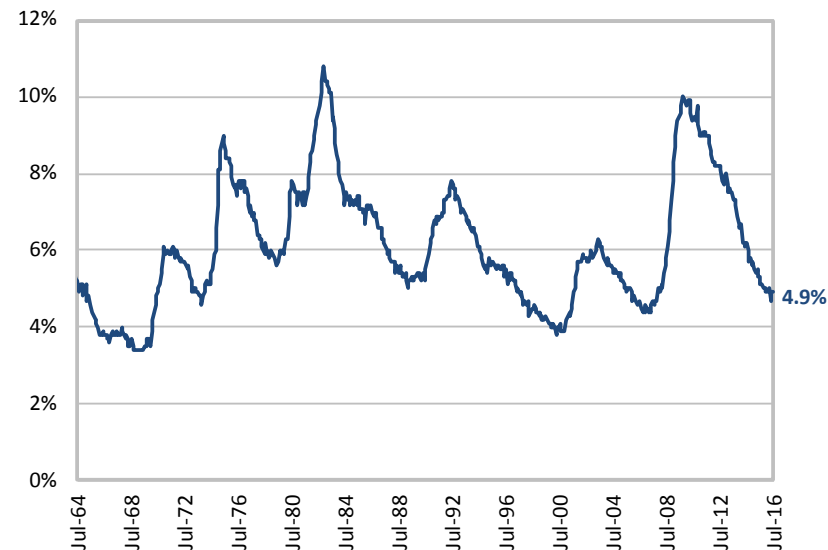
## Economy

- The beginning of July was defined by uncertainty following the United Kingdom's decision to exit the European Union in June. Central bankers in developed economies around the world responded to Brexit concerns by increasing monetary policy accommodation; markets reacted positively to these developments, as evidenced by the strong equity market performance during the month. The US Federal Open Market Committee meeting in July resulted in no change in interest rates, as expected. Investors expect a very slow pace of interest rate hikes going forward, which helped stabilize equity markets following Brexit, pushed the S&P 500 to a new all-time high in July, and generated equity gains throughout the world.
- The July employment report showed continued strength in the US Labor market as employers added 255,000 payrolls, exceeding economists' expectations of 180,000 new jobs. The unemployment rate remained at 4.9% as more workers joined the labor force during the month, and reports from May and June were revised upwards by a combined 18,000 payrolls. Although job gains have averaged 186,000 per month in 2016 versus 229,000 per month in 2015, the strong pace of expansion should continue to tighten the labor market and put upward pressure on wages. For the 12 months ending July, average hourly earnings rose 2.6%, matching the highest wage growth the economy has seen over the course of the recovery.
- Real GDP grew at a 1.2% annualized rate during the second quarter of 2016, according to the Bureau of Economic Analysis. This estimate trails expectations for 2.5% growth and marks the third straight quarter below 2.0%. However, inventory drawdowns, which are volatile and affect GDP on a short-term basis, negatively impacted the second quarter figure. As inventories revert in coming quarters, they should be additive to GDP growth. Fourth quarter 2015 and first quarter 2016 growth were 0.9% and 0.8%, respectively.

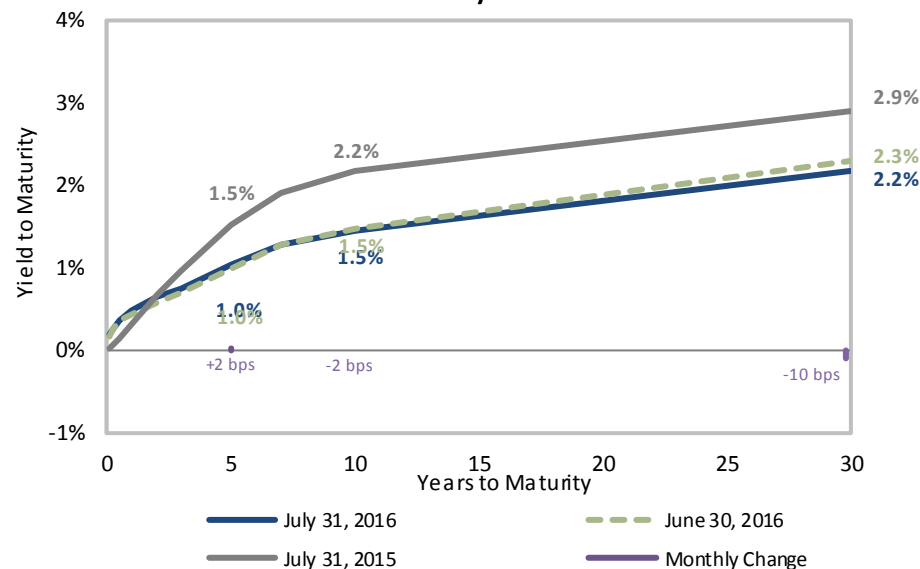
## Yield Curve

- The spread between 2-year and 30-year Treasuries narrowed 17 bps to 153 bps in July, below the 30-year average spread of 166 bps.

### Unemployment Rate



### Treasury Yield Curve



## Growth Assets

July 31, 2016

### Public Equities

- Global equity markets posted positive returns, rebounding from June's post-Brexit declines. In the US, the S&P 500 gained 3.7% and small caps outperformed large with the Russell 2000 gaining 6.0%. After underperforming in June, international developed markets outperformed their domestic peers with the MSCI EAFE Index returning 5.1% and the MSCI EAFE Small Cap Index returning 6.1%. Emerging markets continued to add to their year-to-date gains, returning 5.0% for the month.
- Master limited partnerships (MLPs) gained for the fifth straight month in July despite the 13.9% decline in crude oil prices. The recent decoupling of MLP performance and oil price changes comes as an encouraging sign for MLP investors, as the two had been highly correlated for the past two-plus years.

### Public Debt

- High yield bonds also disconnected from energy during the month. The energy sector of the Barclays High Yield Index returned 0.9%, and the overall Index gained 2.7%. Energy sector gains have been a significant driver of returns year-to-date within high yield, and the asset class has been among the top performers over this period as well.
- Local currency emerging market debt posted another positive returning month, bringing the year-to-date return to 14.7%. Declining yields as well as positive currency performance have both contributed to asset class gains in 2016.

### Private Equity

- Larger deals continue to sell for relatively higher price multiples with the average over the first half of 2016 greater than the 2015 average, although there was a decrease in the second quarter of 2016. In contrast to this, deals involving companies that have less than \$50m in EBITDA experienced significantly lower multiples in the second quarter, with an average of 7.2x for the period; this is dramatically lower than the 10.7x average experienced in 2015. Data and manager sentiment suggest the lower multiples in the middle market demonstrate managers staying disciplined on pricing and walking away from deals with higher valuations, causing fewer deals to be completed.

### Private Debt

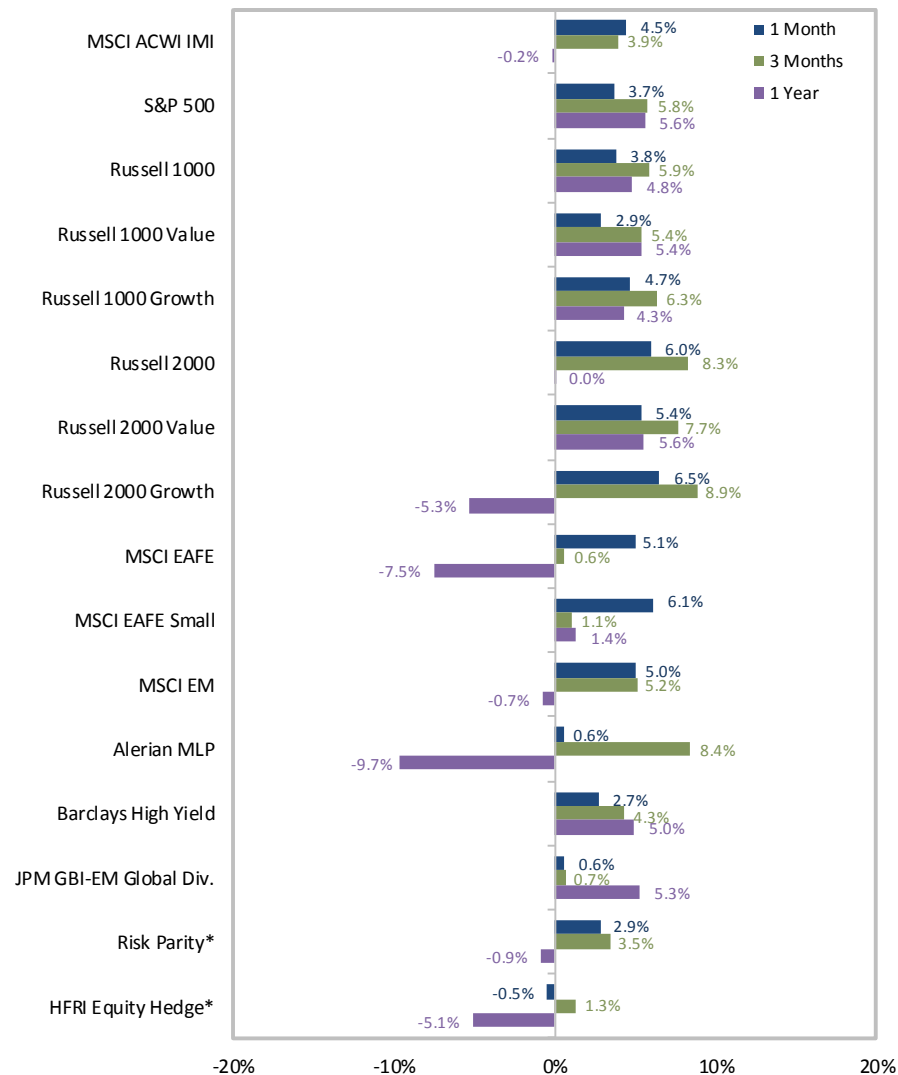
- Debt multiples suggest a similar dichotomy between middle market deals and larger deals. Average debt multiples for deals larger than \$50m in EBITDA essentially held constant with the multiples experienced in 2015 while deals in the middle market decreased markedly from 5.3x to 4.3x over the first half of 2016.

### Risk Parity

- Risk parity strategies were positive in June, with strong contributions from nominal and inflation-linked bonds. Commodities also contributed, while equities and credit were slightly negative.

### Growth Hedge Funds

- Growth hedge funds declined in June. Long/short equity strategies were negative, with the largest losses coming from fundamental value strategies. Activist and merger arbitrage strategies also detracted, while distressed strategies were positive.



\* Data was not available at time of publication – returns are previous month's.  
 Note: Risk Parity returns are based on an internally comprised benchmark.  
 All returns are USD.

## Income Assets

July 31, 2016

### Public Debt

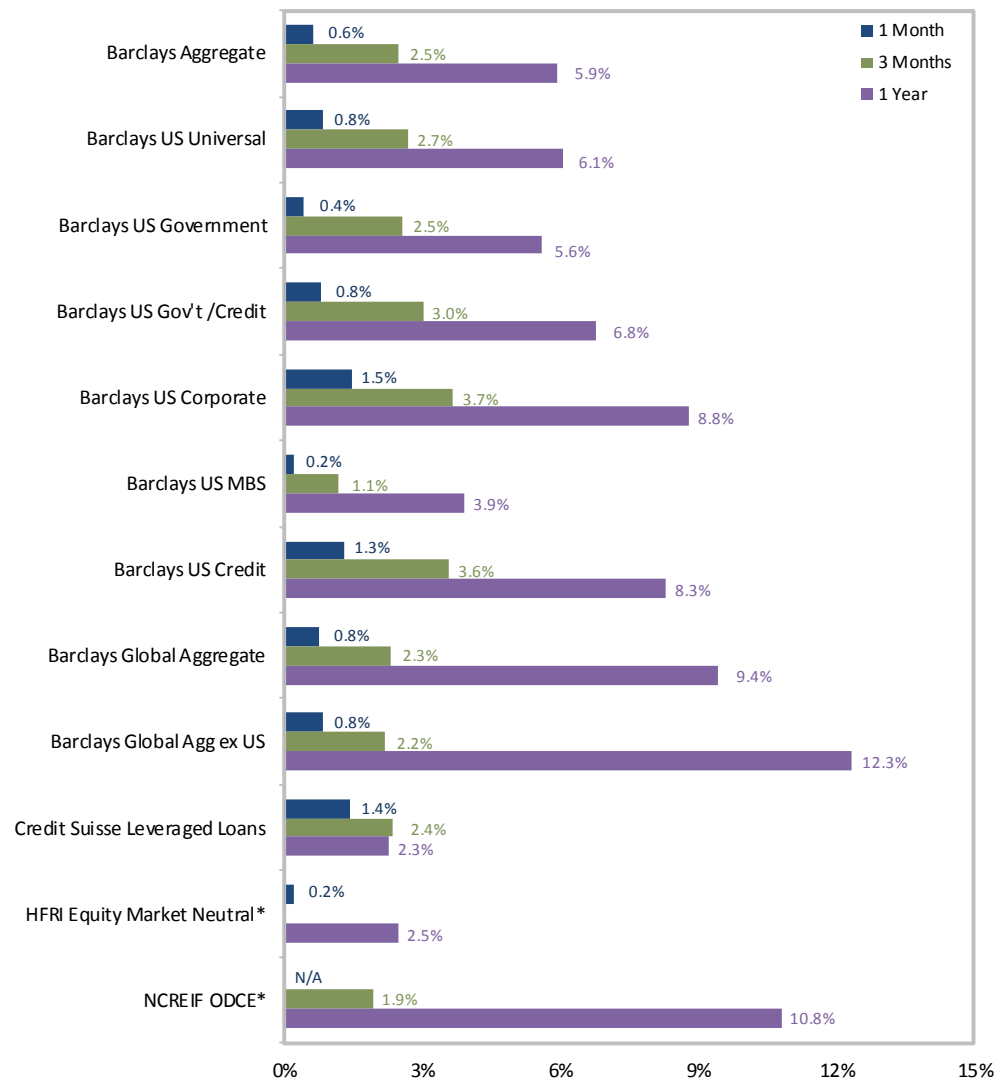
- 10-year Treasury yields reached all-time lows in early July as investor expectations for growth and inflation remain muted. Core fixed income strategies have performed well over the past year despite the low level of yields, with the Barclays Aggregate gaining 5.9% over this period.
- The investment grade corporate portion of the Barclays Aggregate returned 1.5% during July, outperforming duration-neutral treasuries by 81 bps during the month. Corporate bond spread declined 11 bps to 145 bps, near the 20-year average of 138 bps.
- Securitized assets were contributors to the Aggregate during the month, with MBS and CMBS outperforming Treasuries while ABS underperformed.
- International bonds returned 0.8% during July as rates continued to fall around the globe. International bonds are the second best performing asset class in fixed income year-to-date, only being outperformed by local currency emerging market debt. However, a large percentage of outstanding international bonds are trading at negative yields, an indicator of limited return potential looking forward.
- Bank loans generated a positive return of 1.4% during the month as discount margins continued to compress, decreasing from 581 bps at the end of June to 537 bps in July.

### Relative Value Hedge Funds

- Income hedge funds gained in June. Equity market neutral and most credit-related strategies were positive, while volatility arbitrage strategies detracted.

### Core Real Estate

- The second quarter NCREIF ODCE Index return is 2.1% gross, 1.9% net. 110 bps of the return is comprised of income, with appreciation making up the other 100 bps. While these returns reflect a drop in appreciation from previous quarters they remain in line with historic norms. 76 consecutive months of job growth in the US have been a tailwind for core real estate returns.



\* Data was not available at time of publication – returns are previous month's.  
Note: All returns are USD.

# Diversification Assets

July 31, 2016

## Inflation

- TIPS returned 0.9% in July as 10-year breakeven inflation expectations increased modestly, rising 6 bps during the month. Despite the increase during July, market expectations for inflation remain near all-time lows.

## Deflation

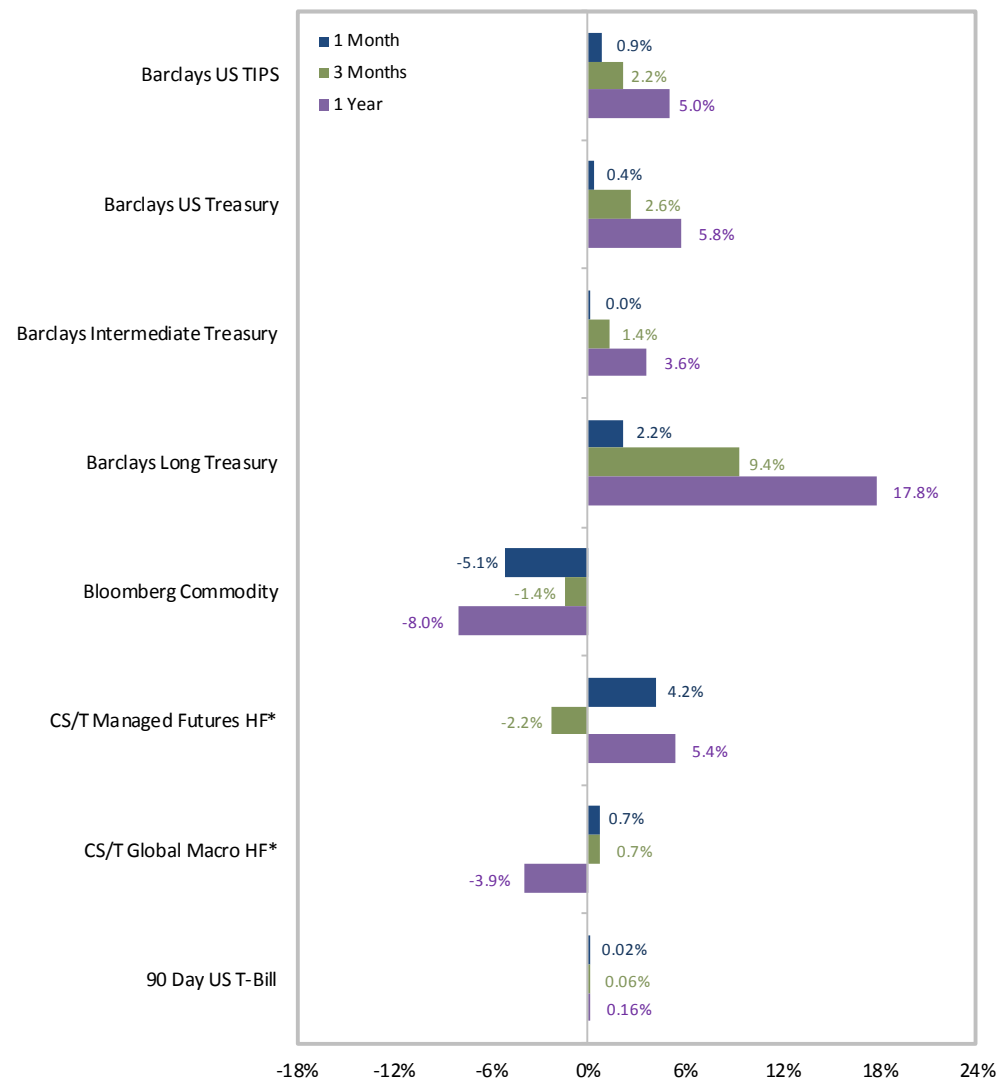
- The Barclays Long Treasury Index returned 2.2% as yields declined along the long end of the curve. The 30-year Treasury yield reached an all-time low during July and ended the month yielding 2.2%, 6 bps lower than the end of June.

## Commodities

- The Bloomberg Commodity Index declined 5.1% during the month. Energy underperformed during July as WTI Crude oil declined 13.9% and gasoline was down 12.0%. Major metals such as gold, silver, and nickel continued their advance at 2.2%, 9.3% and 12.6%, respectively. Soybeans declined in July by 12.1%, following last month's gain due to lower South American production expectations and strong overall demand.

## Tactical Trading

- Diversification hedge funds posted strong gains in June. CTAs drove performance, while discretionary global macro strategies were also positive.



\* Data was not available at time of publication – returns are previous month's.  
Note: All returns are USD.

## DISCLOSURES

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Summary statistical data such as standard deviation (risk), Sharpe ratio, and tracking error is calculated using industry-standard methodology. Details regarding these calculations are available upon request.





**CITY OF JACKSONVILLE  
POLICE AND FIRE PENSION FUND  
STATEMENT OF INVESTMENT POLICY  
EXECUTIVE SUMMARY**

**I. INTRODUCTION AND PURPOSE**

The purpose of the Investment Policy is to comply with statutory and common law fiduciary principles to ensure that Fund assets are prudently invested in a diversified portfolio for the highest and best return with an prudent level of risk. The program of investments reflected in the Policy is intended to make a significant contribution to the financial needs of the Fund to assure the membership that benefits will be paid as and when they become due.

**II. GENERAL**

The Board of Trustees is charged with the final authority in making the purposes of this Policy effective. The Board, in accordance with state law, the City Charter and Code, and general fiduciary principles may delegate specific investment functions to carefully selected professionals. The Board retains a continuing duty to monitor performance and ensure accountability of asset managers and the investment consultant. The Financial Investment Advisory Committee has been created to bring additional professional advice and experience to the investment process by increasing the local stakeholder participation on the management of the Fund.

The Policy embodies and applies the prudent investor standard that investment decisions will reflect those actions which a prudent investor, as defined in Florida law, would take in the management of a retirement system. The policy applies not only the express statutory provisions of Chapters 112, 175, 185, 247, and 518 Florida Statutes, but draws from comparable standards in Section 404 of ERISA. The Fund recognizes that ERISA does not apply to public employee retirement systems, but reference to federal cases applying ERISA in the prudent investor context, provides some illustrative examples in the absence of comparable jurisprudence interpreting Florida law.

The specific investment strategies available to the Fund are further outlined in Chapter 22 of the City Charter and Chapter 121 of the Ordinance Code. The Board, staff and professionals have a duty to be familiar with and apply these statutory grants and restrictions.

### **III. INVESTMENT OBJECTIVES**

The overarching purpose of the investment program is to provide sufficient growth of assets to meet long term benefit needs of the Fund while maintaining sufficient liquidity to make timely payments to retirees and beneficiaries.

The Policy depends on the adoption of a diversified program of investment strategies with appropriate benchmarks. The goal of the investment program is to achieve a long term goal of 4.5% growth, net of inflation and to achieve the actuarially assumed rate of return of 7%. To achieve these goals, active asset managers are expected to exceed the median benchmark in each relevant asset universe over market cycles of 3-5 years. Passive asset managers are expected to achieve an annualized return, gross of fees, that matches the underlying market benchmark, with a minimum tracking error to the benchmark index.

### **IV. INVESTMENT POLICIES**

All invested assets will be managed by professional investor advisors, chosen through a program of proper due diligence. The Board shall make all hiring and termination decisions, with the advice of the FIAC and the Fund's investment consultant.

It is the aim of the Policy that the Fund be fully invested, but with sufficient liquidity to meet the payroll needs of the retirees and beneficiaries and to defray the reasonable expenses of the Fund. The assets are reserved at all times for the benefit of the Fund and the managerial needs of the Fund to provide services to its membership.

All financial assets, except those assets needed for immediate payment of benefits or fund expenses shall be maintained by the

custodian. Immediate cash needs of the Fund may be maintained by a local financial institution, including the City treasury.

The portfolio shall be allocated in a broad range of lawful investment strategies to enhance return, limit volatility and reduce long term risk.

Payment for investment transactions and delivery of securities shall be governed by prudent principles to limit fraud and provide for proper safekeeping.

There shall be continuing review of all investment practices, including a review of risk and internal controls in an annual audit.

Trustees, FIAC, and staff shall be provided regular training and education related to investments.

## **V. AUTHORIZED CLASSES OF INVESTMENT**

All authorized investments shall be within those classes provided in Section 215.47, Fla. Stat., as modified by the City Ordinance Code and City Charter 22.02d. These include domestic equities, domestic bonds; certain governmental bonds; foreign equities and bonds; real estate; and certain classes of alternative investments. There shall be no investment in hedge funds. Various categories are limited as a percentage of the total portfolio, at cost.

Assets may be loaned by the custodian in a prudent program of securities lending with adequate collateral and proper risk assessment to avoid the credit, market, and collateral risk in each lending transaction.

The Board, in consultation with the FIAC and the investment consultant shall allocate assets in accordance with the ranges and limits set in the Policy. Performance of each class shall be measured by the benchmarks established in the policy.

The portfolio ranges reflected in the Policy are designed to minimize risk and volatility through broad diversification over the full range of the permissible investment market. The portfolio shall further be

allocated into various active and passive strategies.

## **VII. PORTFOLIO GUIDELINES**

For each asset class and strategy, the Board, in consultation with the Administrator, investment consultant, the managers, the FIAC, and the actuary shall continually evaluate the asset allocation and investment styles to achieve the long term goals of the Fund.

The Policy establishes guidelines and restrictions of each asset class. The effectiveness of these restrictions shall be evaluated on a continuing basis. In addition, fees shall be evaluated annually.

Consistent with the fiduciary and due diligence principles in the Policy, the Board shall give consideration to qualified minority, emerging and local managers.

The Fund may consider economically targeted investments and the consideration of ESG (environmental, social, governance) principles in its investment decisions, provided such considerations are otherwise consistent with the goals and standards contained in the Policy.

## **VIII. ROLES AND RESPONSIBILITIES**

The Policy sets forth specific roles and responsibilities of the custodian, investment managers, the Board, the Administrator, the City Treasurer, the investment consultant, and other external service providers.

Each such provider should be asked to explain their knowledge of their roles and responsibilities to the Board as reflected in this Policy. It is ultimately the duty of the Board to ensure adherence to these roles and to maintain accountability for each.

## **IX. FUND PERFORMANCE MEASUREMENT STANDARDS**

Ultimately, the success of the Policy can only be measured by meaningful standards of measurement. The Policy provides for

assessment of performance by managers and for the comparison of benchmarks over a rolling 3-5 year period.

Benchmarks have been identified for each asset class with a target goal of exceeding the median in a universe of similarly managed public pension fund portfolios. Benchmarks shall be evaluated by the Board on a continuing basis to determine their continuing viability.

## **X. REPORTING REQUIREMENTS**

The Policy also provides for an orderly process of monthly, quarterly and annual evaluations of the portfolio performance.

At all times the Board retains the right to change managers for any reason which the Board deems sufficient, which reasons shall include but not be limited to performance, change in ownership or personnel, and adverse regulatory activity.

## **XI. PROXY VOTING POLICY**

Proxy voting rights are a valuable asset of the Fund and shall be exercised consistent with accepted fiduciary principles. As the Policy adopts a prudent expert rule for proxy voting, delegation to the managers within that standard is appropriate. The voting of proxies shall at all times be guided by what is in the best interest of the Fund and its participants. Each manager shall report the proxy votes made and the rationale to the Board.

## **XII. OTHER**

The Fund shall be audited annually by an independent CPA.

Asset values shall be at the market value reported by the custodian.

The Fund may employ commission recapture programs consistent with Section 28e of the Securities and Exchange Act of 1934. In the creation and evaluation of any such program, best execution shall be the guiding principle.

The Board has the discretion to employ transition managers for the orderly liquidation of the portfolio of a terminated manager. The transition manager shall not be affiliated with the investment consultant.

All investment managers shall have written contracts. The contracts shall be governed by Florida law and venue for any dispute shall be in the appropriate state or federal court in Duval County. Each manager shall be a fiduciary to the Fund and shall conduct its actions in accordance with accepted statutory and common law fiduciary principles. Managers shall acknowledge familiarity with governing statutory provisions and adherence to the investment policy. All contracts shall be terminable at will and without a penalty. All investment advisors shall be registered with the SEC and shall agree to promptly notify the Fund of any regulatory, criminal, or civil investigation relating to the performance of investment duties.

## Appendix

As of August 2016 the Target Asset Allocation approved by the Board of Trustees is as follows:

DOMESTIC EQUITIES	39.0%
Large Cap	31.4%
Small-Mid Cap	7.6%
INTERNATIONAL EQUITY	20.0%
Developed Markets	14.0%
Emerging Markets	6.0%
PRIVATE EQUITY	0%
FIXED INCOME	20.5%
Core	4.0%
Core Plus	15.5%
Cash	1.0%
TIPs	0%
REAL ASSETS	20.5%*
Core Real Estate	10%
Private Non-Core Real Estate	5%
MLPs	5.5%
Private Real Assets/Natural Resources	0%

\*An amount equivalent to approximately 1% is represented by the office building housing the Fund's administrative offices and the adjoining parking garage.

In pursuit of incremental investment returns or avoid risk, the Board may, in consultation with the investment consultant, consider a variance in the asset mix from the long term strategic allocation based on market conditions and the investment environment for the individual asset classes. After considering the nature of current and anticipated economic conditions, the absolute values of asset class investments and the relative valuations between asset classes; the Board may elect to pursue such variances in accordance with the following established ranges (percentages are based on the market value of the Fund's assets):

ASSET CLASS RANGE	
DOMESTIC EQUITIES	34-44%
INTERNATIONAL EQUITIES	15%-25%
PRIVATE EQUITY	0-10%
FIXED INCOME	14.5%-24.5% **
REAL ESTATE	10-20%
MLPs	0%-10%
PRIVATE REAL ASSETS	0-5%
CASH EQUIVALENTS	0-5%









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

Investment Performance Review

**June 30, 2016**

## Table of Contents

Executive Summary	3
Total Fund	11
US Equity	20
International Equity	52
Fixed Income	75
Real Estate	87
MLPs/Energy	97
Appendix	101
Benchmark Composition	102
Index Report	104
Glossary	110

## Executive Summary

## Economic & Capital Market Highlights

June 30, 2016

### Economy

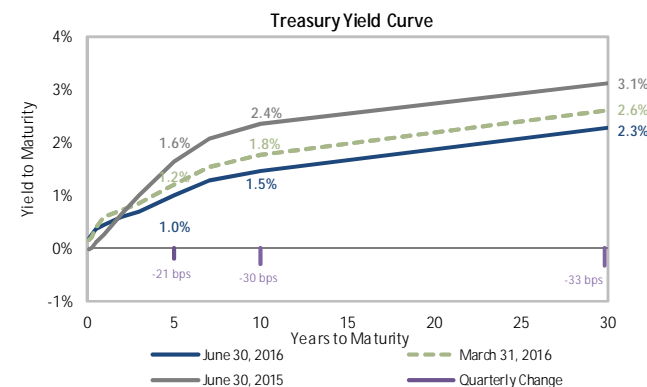
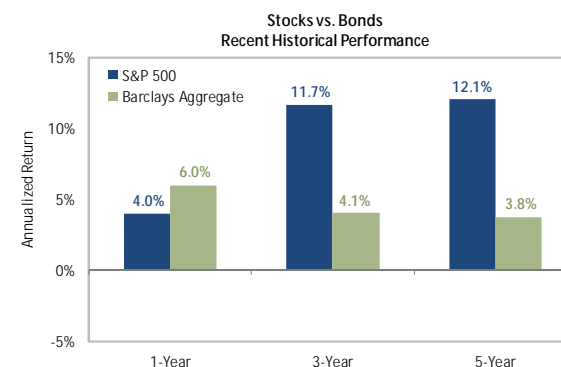
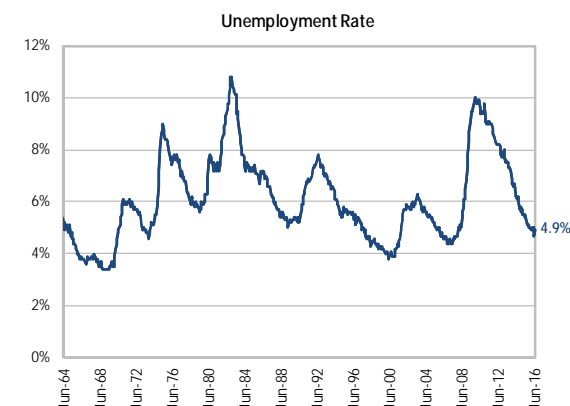
The major economic event of the second quarter was the United Kingdom's referendum to remain or exit the European Union, commonly known as "Brexit." From an economic and political perspective, the result of the vote has increased uncertainty as the exit process will likely take place over several years and require a great deal of negotiation. In the aftermath of the Brexit vote, policy makers around the world have stepped in to ease market volatility, vowing to keep monetary policy accommodative for longer than previously expected. At the end of May, financial markets were pricing in approximately a 50% chance of a Federal Reserve rate hike at the July FOMC meeting; following the Brexit vote, the probability of any rate hike occurring in 2016 dropped to below 10%. One of the main drivers of market performance over the past several years has been central bank intervention, which has pushed bond yields to all-time lows and raised equity markets, particularly in the US, to new all-time highs. Overall, the US economy appears to have continued along its slow growth trajectory during the quarter. Payroll increases have moderated somewhat but remain expansionary, and wage growth is starting to rise from low levels. The service sector of the US economy continues to perform well, while manufacturing is showing signs of recovery following a sustained period of weakness.

### Capital Markets

Global equities declined following the Brexit vote before recovering their losses to end the quarter slightly higher. Fixed income assets performed well as yields drifted near historically low levels; the 10-year Treasury ended June yielding 1.47%, 30 basis points lower quarter-over-quarter. Credit investments performed well due to declining yields and spread tightening, while energy-related investments such as master limited partnerships rose on oil price increases and improving investor sentiment.

### Market Performance (Returns in USD)

		Quarter	1 Year	3 Year	5 Year
MSCI ACWI IMI	Global Equity	1.1%	-3.9%	6.1%	5.4%
Russell 3000	US Equity	2.6%	2.1%	11.1%	11.6%
S&P 500	US Large Cap Equity	2.5%	4.0%	11.7%	12.1%
Russell 1000	US Large Cap Equity	2.5%	2.9%	11.5%	11.9%
Russell 1000 Value	US Large Cap Value Equity	4.6%	2.9%	9.9%	11.4%
Russell 1000 Growth	US Large Cap Growth Equity	0.6%	3.0%	13.1%	12.3%
Russell 2000	US Small Cap Core Equity	3.8%	-6.7%	7.1%	8.4%
Russell 2000 Value	US Small Cap Value Equity	4.3%	-2.6%	6.4%	8.1%
Russell 2000 Growth	US Small Cap Growth Equity	3.2%	-10.8%	7.7%	8.5%
MSCI EAFE	Int'l Developed Large Cap Equity	-1.5%	-10.2%	2.1%	1.7%
MSCI EAFE Small Cap	Int'l Developed Small Cap Equity	-2.6%	-3.7%	7.3%	4.8%
MSCI Emerging Markets	Emerging Market Equity	0.7%	-12.1%	-1.6%	-3.8%
Alerian MLP	Master Limited Partnerships	19.7%	-13.1%	-5.4%	3.2%
Barclays Aggregate	US Core Fixed Income	2.2%	6.0%	4.1%	3.8%
Barclays US Treasury	US Treasuries	2.1%	6.2%	3.5%	3.5%
Barclays US Credit	US Corporate Bonds	3.5%	7.6%	5.3%	5.2%
Barclays US MBS	US Mortgage Backed Securities	1.1%	4.3%	3.8%	3.0%
Barclays US Corp: High Yield	US High Yield Bonds	5.5%	1.6%	4.2%	5.8%
NCREIF ODCE (net)	Core Real Estate	1.9%	10.8%	12.0%	11.7%

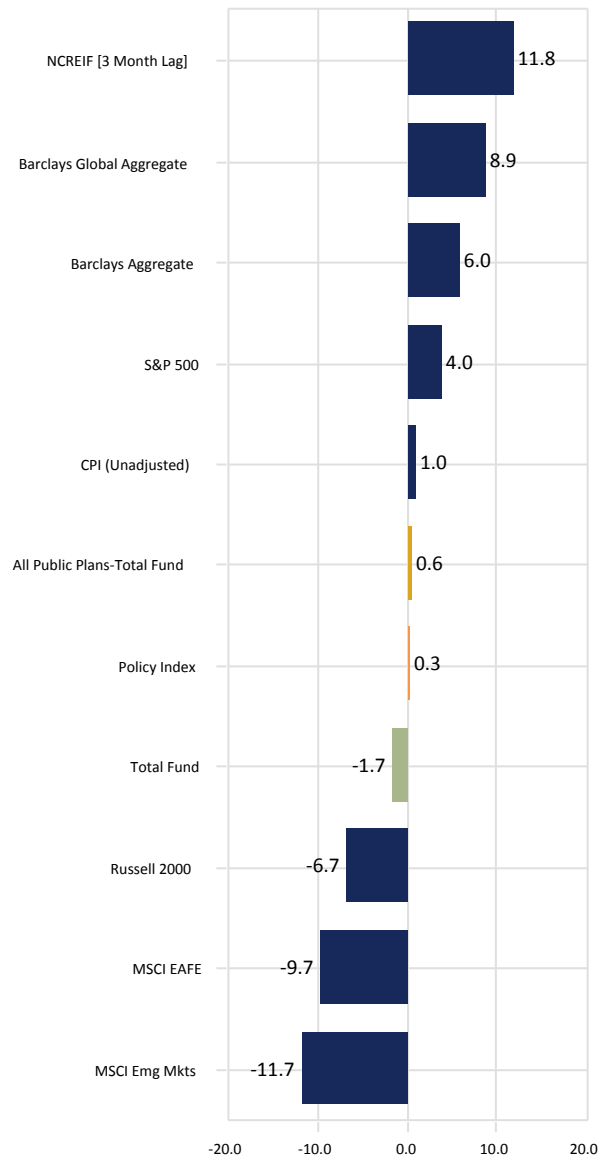


# City of Jacksonville Police & Fire Pension Fund

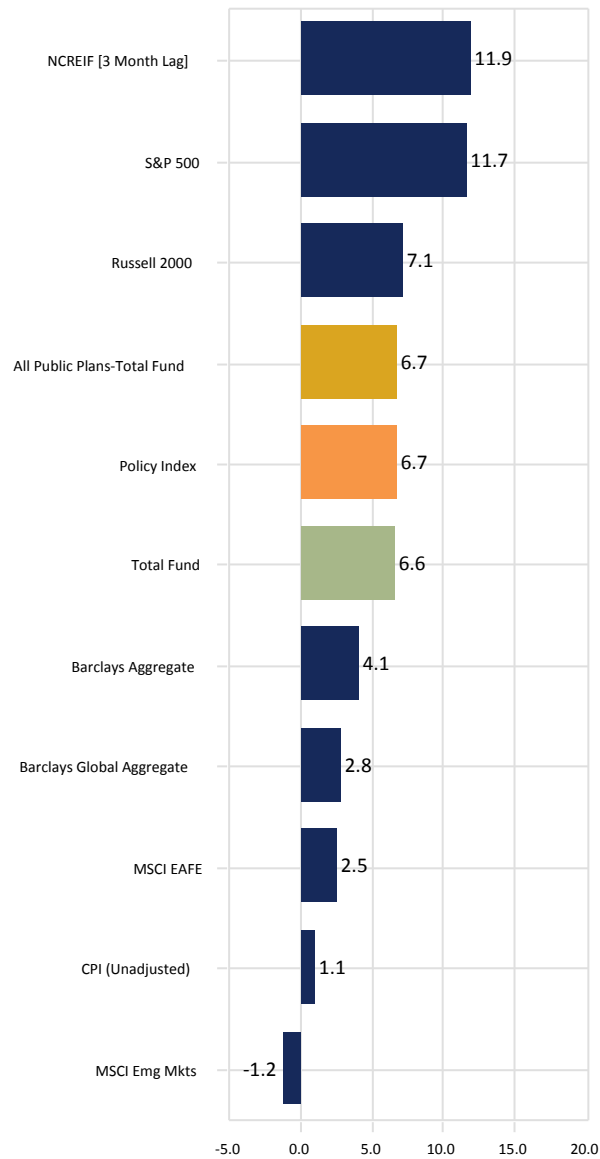
## Market Overview

June 30, 2016

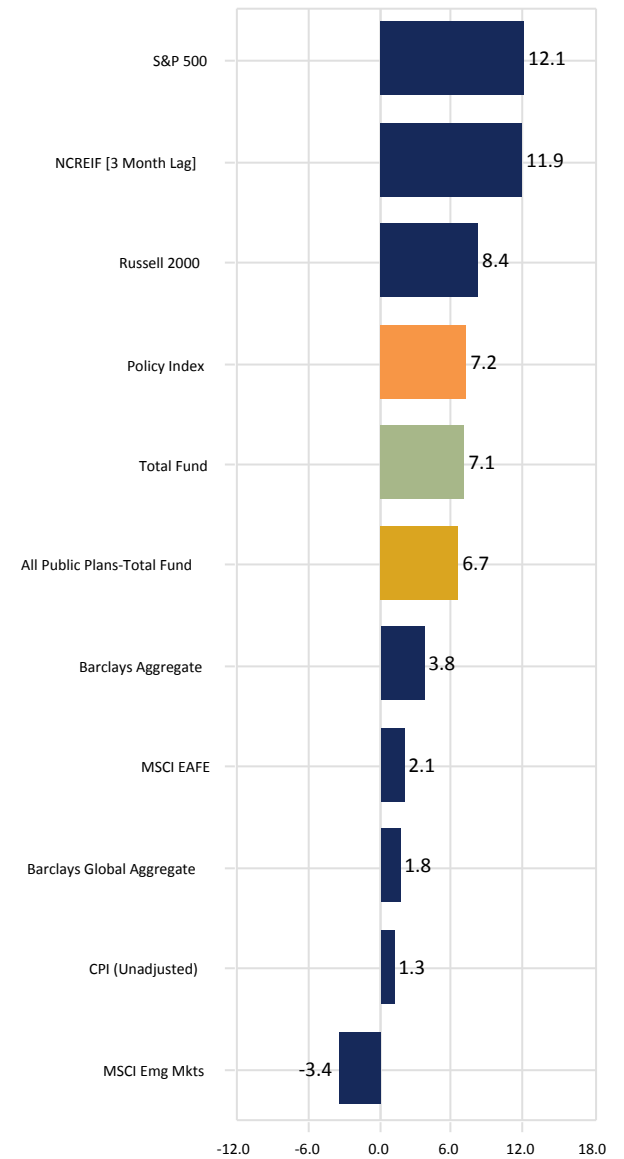
### 1 Year



### 3 Years



### 5 Years



# City of Jacksonville Police & Fire Pension Fund

Asset Allocation & Performance Gross of Fees

June 30, 2016

		Performance(%) and Percentile Rank																
	Asset \$	Asset %	3 Month		FYTD		CYTD		1 Year		2 Year		3 Year		5 Year		10 Year	
<b>Total Fund Composite</b>	<b>1,637,026,562</b>	<b>100.00</b>	<b>2.27</b>	<b>21</b>	<b>6.28</b>	<b>36</b>	<b>2.73</b>	<b>54</b>	<b>-1.72</b>	<b>94</b>	<b>0.68</b>	<b>88</b>	<b>6.59</b>	<b>57</b>	<b>7.11</b>	<b>32</b>	<b>5.96</b>	<b>44</b>
<i>Total Fund Policy</i>			2.87		6.77		3.89		0.26		1.51		6.68		7.21		5.60	
Excess Return			-0.60		-0.49		-1.16		-1.98		-0.83		-0.09		-0.10		0.36	
All Public Plans-Total Fund Median			1.83		5.81		2.82		0.61		2.02		6.75		6.65		5.85	
US Equity	636,040,652	38.85	1.46	86	7.98	65	1.66	79	-1.98	82	2.51	73	8.96	75	10.66	53	7.38	40
<i>US Equity Index</i>			2.63		10.12		3.62		2.14		4.68		11.13		11.60		7.48	
Excess Return			-1.17		-2.14		-1.96		-4.12		-2.17		-2.17		-0.94		-0.10	
All Master Trust-US Equity Segment Median			2.52		8.98		3.41		0.83		3.75		10.19		10.75		7.17	
International Equity	347,470,257	21.23	-0.33	54	3.21	51	-0.80	55	-10.81	83	-6.67	72	3.00	48	0.81	79	1.58	86
<i>International Equity Index</i>			-0.40		2.61		-0.67		-9.80		-7.36		1.62		0.56		1.61	
Excess Return			0.07		0.60		-0.13		-1.01		0.69		1.38		0.25		-0.03	
All Master Trust-Intl. Equity Segment Median			-0.26		3.21		-0.63		-8.72		-5.74		2.84		2.17		2.85	
Fixed Income	368,229,746	22.49	2.40	56	4.53	67	5.23	62	5.35	52	3.54	54	3.77	65	3.66	71	4.99	74
<i>Barclays Aggregate</i>			2.21		4.71		5.31		6.00		3.91		4.06		3.76		5.13	
Excess Return			0.19		-0.18		-0.08		-0.65		-0.37		-0.29		-0.10		-0.14	
All Master Trust-US Fixed Income Segment Median			2.51		5.10		5.62		5.49		3.65		4.28		4.28		5.63	
Real Estate	185,740,455	11.35	2.31	30	7.55	52	4.12	59	11.41	45	12.59	41	12.95	41	13.17	28	8.12	3
<i>NCREIF Fund Index - ODCE [M]</i>			2.13		7.84		4.36		11.81		13.11		12.99		12.71		6.17	
Excess Return			0.18		-0.29		-0.24		-0.40		-0.52		-0.04		0.46		1.95	
All Master Trust-Real Estate Segment Median			1.99		7.61		4.45		11.10		12.23		12.77		12.24		5.60	
<i>NCREIF Property Index</i>			2.03		7.33		4.29		10.64		11.80		11.61		11.52		7.41	
MLPs/Energy	98,156,472	6.00	18.70	76	10.68	28	11.58	79	-16.07	28	-13.46	15	0.74	31	9.34	34	-	
<i>S&amp;P MLP Index</i>			22.44		7.00		14.68		-18.93		-17.71		-5.44		3.36		-	
Excess Return			-3.74		3.68		-3.10		2.86		4.25		6.18		5.98		-	
Master Limited Partnerships (SA+CF) Median			20.52		7.91		15.67		-19.43		-15.30		-1.32		6.42		-	
Cash	1,388,981	0.08	0.07		0.15		0.10		0.18		0.66		0.68		0.69		3.56	



# City of Jacksonville Police & Fire Pension Fund

Asset Allocation & Performance Gross of Fees  
June 30, 2016

	Performance(%) and Percentile Rank																			
	Asset \$	Asset %	3 Month		FYTD		CYTD		1 Year		3 Year		5 Year		10 Year		Since Inception	Inception Date		
US Equity																				
NT S&P 500 Index Fund	86,222,860	5.27	2.47	38	11.22	20	3.88	28	4.06	20	11.73	37	12.15	32	7.45	58	5.08	87	Jan-1999	
S&P 500			2.46		11.15		3.84		3.99		11.66		12.10		7.42		5.07			
Excess Return			0.01		0.07		0.04		0.07		0.07		0.05		0.03		0.01			
IM U.S. Large Cap Equity (SA+CF) Median			1.92		8.40		2.11		0.99		11.13		11.49		7.58		6.23			
Eagle Capital Management	103,489,561	6.32	2.15	55	4.95	79	-1.54	89	-2.24	63	10.11	37	12.00	26	-		11.87	19	Apr-2011	
Russell 1000 Value Index			4.58		12.29		6.30		2.86		9.87		11.35		-		10.68			
Excess Return			-2.43		-7.34		-7.84		-5.10		0.24		0.65		-		1.19			
IM U.S. Large Cap Value Equity (SA+CF) Median			2.47		8.53		3.05		-0.50		9.50		10.79		-		10.26			
GAMCO	71,451,061	4.36	1.53	71	7.77	58	4.09	41	-2.91	68	7.33	84	9.42	79	-		9.26	73	Apr-2011	
Russell 1000 Value Index			4.58		12.29		6.30		2.86		9.87		11.35		-		10.68			
Excess Return			-3.05		-4.52		-2.21		-5.77		-2.54		-1.93		-		-1.42			
IM U.S. Large Cap Value Equity (SA+CF) Median			2.47		8.53		3.05		-0.50		9.50		10.79		-		10.26			
Brown Investment Advisory	73,004,734	4.46	-0.04	67	6.40	47	-1.31	57	1.19	37	-	-	-	-	-		6.88	77	Nov-2013	
Russell 1000 Growth Index			0.61		8.78		1.36		3.02		-		-	-	-		9.72			
Excess Return			-0.65		-2.38		-2.67		-1.83		-		-	-	-		-2.84			
IM U.S. Large Cap Growth Equity (SA+CF) Median			0.61		5.99		-0.85		-0.57		-		-	-	-		8.56			
Sawgrass Asset Management	108,149,858	6.61	1.43	32	10.96	8	4.61	7	6.29	8	-	-	-	-	-		10.44	17	Nov-2013	
Russell 1000 Growth Index			0.61		8.78		1.36		3.02		-		-	-	-		9.72			
Excess Return			0.82		2.18		3.25		3.27		-		-	-	-		0.72			
IM U.S. Large Cap Growth Equity (SA+CF) Median			0.61		5.99		-0.85		-0.57		-		-	-	-		8.56			
DePrince Race & Zollo	105,330,744	6.43	4.55	19	12.39	10	9.97	9	-6.65	80	5.83	80	9.50	62	8.36	32	10.80	89	Sep-1994	
Russell 2000 Value Index			4.31		9.13		6.08		-2.58		6.36		8.15		5.15		9.69			
Excess Return			0.24		3.26		3.89		-4.07		-0.53		1.35		3.21		1.11			
IM U.S. Small Cap Value Equity (SA+CF) Median			2.47		6.87		4.75		-2.73		8.58		9.96		7.62		12.15			
Pinnacle	88,391,834	5.40	-2.50	100	1.92	62	-7.72	100	-12.41	90	7.25	77	8.81	47	-		20.30	24	Mar-2009	
Russell 2500 Growth Index			2.70		3.77		-0.03		-7.69		9.06		9.27		-		19.32			
Excess Return			-5.20		-1.85		-7.69		-4.72		-1.81		-0.46		-		0.98			
IM U.S. SMID Cap Growth Equity (SA+CF) Median			2.88		3.70		0.77		-7.62		8.66		8.77		-		18.42			
International Equity																				
NT EAFE Index Fund	118,487,732	7.24	-1.24	64	0.31	74	-4.11	74	-9.93	65	2.37	60	-	-	-		4.11	57	Apr-2012	
MSCI EAFE Index (Net)			-1.46		0.08		-4.42		-10.16		2.06		-	-	-		3.79			
Excess Return			0.22		0.23		0.31		0.23		0.31		-	-	-		0.32			
IM International Equity (SA+CF) Median			-0.28		3.59		-0.83		-8.20		3.08		-	-	-		4.51			
Baillie Gifford	87,878,482	5.37	0.82	21	3.82	38	-2.29	44	-11.54	93	4.24	51	2.93	69	-		3.32	66	Mar-2011	
MSCI EAFE Growth Index (Net)			-0.15		4.30		-2.22		-4.80		4.17		3.24		-		3.20			
Excess Return			0.97		-0.48		-0.07		-6.74		0.07		-0.31		-		0.12			
IM International Growth Equity (SA+CF) Median			-1.03		2.47		-3.27		-6.58		4.25		3.64		-		3.92			
Silchester	60,188,677	3.68	-1.76	57	2.25	37	-1.10	34	-7.33	34	-	-	-	-	-		4.23	15	Sep-2013	
MSCI EAFE Value Index (Net)			-2.79		-4.14		-6.65		-15.43		-		-	-	-		-1.63			
Excess Return			1.03		6.39		5.55		8.10		-		-	-	-		5.86			
IM International Large Cap Value Equity (SA+CF) Median			-1.40		1.06		-2.84		-9.67		-		-	-	-		2.07			
Acadian Emerging Mkts Equity II Fund	80,915,365	4.94	0.85	77	6.02	75	6.60	50	-12.81	85	-	-	-	-	-		-4.11	70	Jan-2014	
MSCI Emerging Markets (Net)			0.66		7.11		6.41		-12.05		-		-	-	-		-4.74			
Excess Return			0.19		-1.09		0.19		-0.76		-		-	-	-		0.63			
IM Emerging Markets Equity (SA+CF) Median			2.06		8.41		6.57		-8.75		-		-	-	-		-2.94			

## City of Jacksonville Police & Fire Pension Fund

Asset Allocation & Performance Gross of Fees

June 30, 2016

Performance(%) and Percentile Rank																
	Asset \$	Asset %	3 Month		FYTD		CYTD		1 Year		3 Year		5 Year		10 Year	
															Since Inception	Inception Date
<b>Fixed Income</b>																
NTGI Aggregate Bond Index	166,589,541	10.18	2.27	51	4.75	44	5.39	42	6.06	27	4.11	49	-	-	3.02	56
Barclays Aggregate			2.21		4.71		5.31		6.00		4.06		-	-	3.02	
Excess Return			0.06		0.04		0.08		0.06		0.05		-	-	0.00	
IM U.S. Fixed Income (SA+CF) Median			2.28		4.39		4.92		4.39		4.05		-	-	3.16	
Eaton Vance Instl Senior Loan Trust	40,012,678	2.44	2.56	50	2.56	52	4.65	20	1.91	51	2.87	89	-	-	2.90	86
S&P/LSTA Leverage Loan Index			2.92		2.32		4.51		0.94		2.76		-	-	2.79	
Excess Return			-0.36		0.24		0.14		0.97		0.11		-	-	0.11	
IM U.S. Bank Loans (SA+CF) Median			2.56		2.64		4.20		1.96		3.44		-	-	3.43	
Thompson Siegel Fixed	161,627,113	9.87	2.49	36	4.83	60	5.20	74	5.86	73	4.27	62	4.42	34	5.67	38
Thompson Policy Index			2.21		4.71		5.31		6.00		4.06		3.76	5.06	6.19	
Excess Return			0.28		0.12		-0.11		-0.14		0.21		0.66	0.61	0.20	
IM U.S. Broad Market Core Fixed Income (SA+CF) Median			2.32		4.98		5.40		6.14		4.34		4.14	5.56	6.54	
<b>Real Estate</b>																
JP Morgan	141,384,164	8.64	2.02	77	7.45	87	3.94	89	11.10	83	12.84	66	12.97	65	6.91	25
NCREIF Fund Index - ODCE [M]			2.13		7.84		4.36		11.81		12.99		12.71	6.17	7.61	
Excess Return			-0.11		-0.39		-0.42		-0.71		-0.15		0.26	0.74	0.68	
IM U.S. Private Real Estate (SA+CF) Median			2.54		8.24		4.89		12.63		13.41		13.35	6.45	7.79	
Principal Global Investments	44,356,291	2.71	3.22	27	7.87	71	4.69	59	12.42	65	13.29	59	-	-	13.73	54
NCREIF Fund Index - ODCE [M]			2.13		7.84		4.36		11.81		12.99		-	-	13.25	
Excess Return			1.09		0.03		0.33		0.61		0.30		-	-	0.48	
IM U.S. Open End Private Real Estate (SA+CF) Median			2.54		8.24		4.89		12.63		13.41		-	-	13.74	
<b>MLPs/Energy</b>																
Harvest MLP	49,287,201	3.01	20.45	55	8.67	35	12.97	72	-17.41	34	0.40	38	9.31	36	-	9.89
S&P MLP Index			22.44		7.00		14.68		-18.93		-5.44		3.36	-	2.99	
Excess Return			-1.99		1.67		-1.71		1.52		5.84		5.95	-	6.90	
Master Limited Partnerships (SA+CF) Median			20.52		7.91		15.67		-19.43		-1.32		6.42	-	5.90	
Tortoise MLP	48,869,271	2.99	17.00	84	12.78	21	10.20	84	-14.68	22	0.97	28	9.31	36	-	9.47
S&P MLP Index			22.44		7.00		14.68		-18.93		-5.44		3.36	-	2.99	
Excess Return			-5.44		5.78		-4.48		4.25		6.41		5.95	-	6.48	
Master Limited Partnerships (SA+CF) Median			20.52		7.91		15.67		-19.43		-1.32		6.42	-	5.90	
Cash	1,388,981	0.08	0.07		0.15		0.10		0.18		0.68		0.69	3.56	8.64	
																Dec-1998

## City of Jacksonville Police & Fire Pension Fund

### Asset Allocation

June 30, 2016

	Equity		Fixed Income		Illiquid Asset		Cash & Cash Equivalents		Total Fund	
	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%
<b>Total Fund Composite</b>	<b>947,615,088</b>	<b>57.89</b>	<b>366,017,968</b>	<b>22.36</b>	<b>281,694,032</b>	<b>17.21</b>	<b>41,699,475</b>	<b>2.55</b>	<b>1,637,026,562</b>	<b>100.00</b>
<b>US Equity</b>	<b>600,146,157</b>	<b>94.36</b>	-	-	-	-	<b>35,894,495</b>	<b>5.64</b>	<b>636,040,652</b>	<b>38.85</b>
NT S&P 500 Index Fund	86,221,942	100.00	-	-	-	-	918	0.00	86,222,860	5.27
Eagle Capital Management	93,935,906	90.77	-	-	-	-	9,553,655	9.23	103,489,561	6.32
GAMCO	63,805,088	89.30	-	-	-	-	7,645,973	10.70	71,451,061	4.36
Brown Investment Advisory	68,780,291	94.21	-	-	-	-	4,224,443	5.79	73,004,734	4.46
Sawgrass Asset Management	102,394,204	94.68	-	-	-	-	5,755,655	5.32	108,149,858	6.61
DePrince Race & Zollo	100,231,535	95.16	-	-	-	-	5,099,209	4.84	105,330,744	6.43
Pinnacle	84,777,192	95.91	-	-	-	-	3,614,642	4.09	88,391,834	5.40
<b>International Equity</b>	<b>347,468,930</b>	<b>100.00</b>	-	-	-	-	<b>1,327</b>	<b>0.00</b>	<b>347,470,257</b>	<b>21.23</b>
NT EAFE Index Fund	118,486,406	100.00	-	-	-	-	1,327	0.00	118,487,732	7.24
Baillie Gifford	87,878,482	100.00	-	-	-	-	-	-	87,878,482	5.37
Silchester	60,188,677	100.00	-	-	-	-	-	-	60,188,677	3.68
Acadian Emerging Mkts Equity II Fund	80,915,365	100.00	-	-	-	-	-	-	80,915,365	4.94
<b>Fixed Income</b>	-	-	<b>366,017,968</b>	<b>99.40</b>	-	-	<b>2,211,777</b>	<b>0.60</b>	<b>368,229,746</b>	<b>22.49</b>
NTGI Aggregate Bond Index	-	-	166,588,711	100.00	-	-	830	0.00	166,589,541	10.18
Eaton Vance Instl Senior Loan Trust	-	-	39,992,597	99.95	-	-	20,081	0.05	40,012,678	2.44
Thompson Siegel Fixed	-	-	159,436,661	98.64	-	-	2,190,452	1.36	161,627,113	9.87
<b>Real Estate</b>	-	-	-	-	<b>185,740,455</b>	<b>100.00</b>	-	-	<b>185,740,455</b>	<b>11.35</b>
JP Morgan	-	-	-	-	141,384,164	100.00	-	-	141,384,164	8.64
Principal Global Investments	-	-	-	-	44,356,291	100.00	-	-	44,356,291	2.71
<b>MLPs/Energy</b>	-	-	-	-	<b>95,953,577</b>	<b>97.76</b>	<b>2,202,894</b>	<b>2.24</b>	<b>98,156,472</b>	<b>6.00</b>
Harvest MLP	-	-	-	-	48,031,991	97.45	1,255,210	2.55	49,287,201	3.01
Tortoise MLP	-	-	-	-	47,921,586	98.06	947,685	1.94	48,869,271	2.99
Cash	-	-	-	-	-	-	1,388,981	100.00	1,388,981	0.08

## City of Jacksonville Police & Fire Pension Fund

### Fee Schedule

1 Quarter Ending June 30, 2016

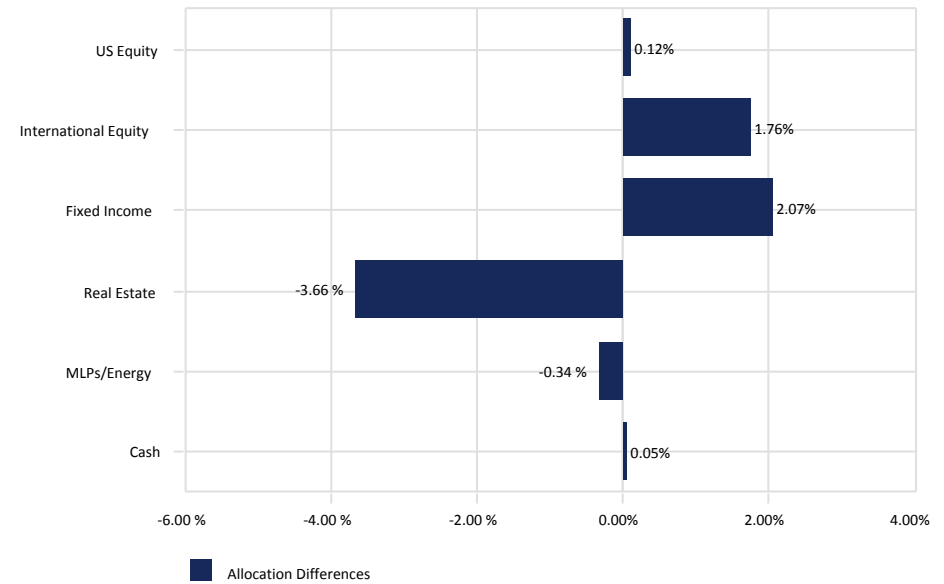
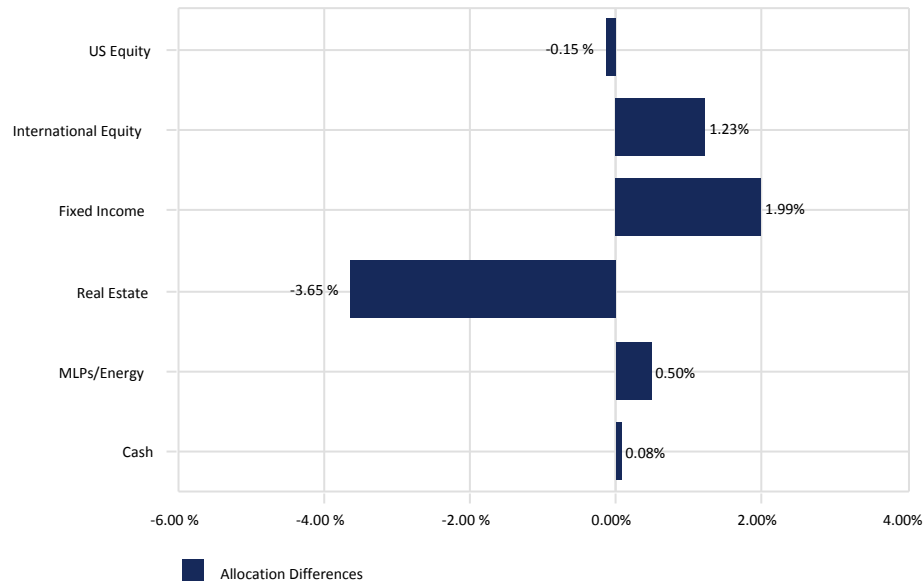
	Market Value As of 04/01/2016	Net Transfers	Contributions	Distributions	Fees	Expenses	Market Value As of 06/30/2016	Return On Investment
NT S&P 500 Index Fund	84,144,827	-	-	-	-	-	86,222,860	2,078,033
Eagle Capital Management	101,315,766	191,009	-	-	-191,009	-2,202	103,489,561	2,175,997
GAMCO	70,378,273	136,990	-	-	-136,990	-909	71,451,061	1,073,697
Brown Investment Advisory	73,036,033	64,492	-	-	-64,492	-1,034	73,004,734	-30,265
Sawgrass Asset Management	106,626,541	-	-	-	-	-1,817	108,149,858	1,525,134
DePrince Race & Zollo	100,752,470	212,518	-	-	-212,518	-1,022	105,330,744	4,579,296
Pinnacle	90,656,602	168,658	-	-	-168,658	-1,512	88,391,834	-2,263,256
NT EAFE Index Fund	119,970,482	-	-	-	-	-	118,487,732	-1,482,750
Baillie Gifford	87,162,479	-	-	-	-	-	87,878,482	716,002
Silchester	61,384,585	-	-	-	-119,657	-	60,188,677	-1,076,251
Acadian Emerging Mkts Equity II Fund	80,234,888	392,692	-	-	-392,692	-	80,915,365	680,477
NTGI Aggregate Bond Index	164,886,184	-2,000,000	-	-	-	-	166,589,541	3,703,357
Eaton Vance Instl Senior Loan Trust	39,012,999	-	-	-	-	-6	40,012,678	999,685
Thompson Siegel Fixed	157,694,540	133,497	-	-	-133,497	-919	161,627,113	3,933,492
JP Morgan	138,582,328	-	-	-	-	-	141,384,164	2,801,836
Principal Global Investments	43,056,762	-	-	-	-87,120	-	44,356,291	1,386,648
Harvest MLP	40,919,570	73,231	-	-	-73,231	-718	49,287,201	8,368,349
Tortoise MLP	41,770,061	78,318	-	-	-78,318	-309	48,869,271	7,099,519
Cash	812,628	546,595	160,000	-	-	-189,615	1,388,981	59,373

**Total Fund**

# City of Jacksonville Police & Fire Pension Fund

## Asset Allocation vs. Target Allocation

June 30, 2016



June 30, 2016

	Market Value (\$)	Allocation (%)	Target (%)
US Equity	636,040,652	38.85	39.00
International Equity	347,470,257	21.23	20.00
Fixed Income	368,229,746	22.49	20.50
Real Estate	185,740,455	11.35	15.00
MLPs/Energy	98,156,472	6.00	5.50
Cash	1,388,981	0.08	0.00
Total Fund	1,637,026,562	100.00	100.00

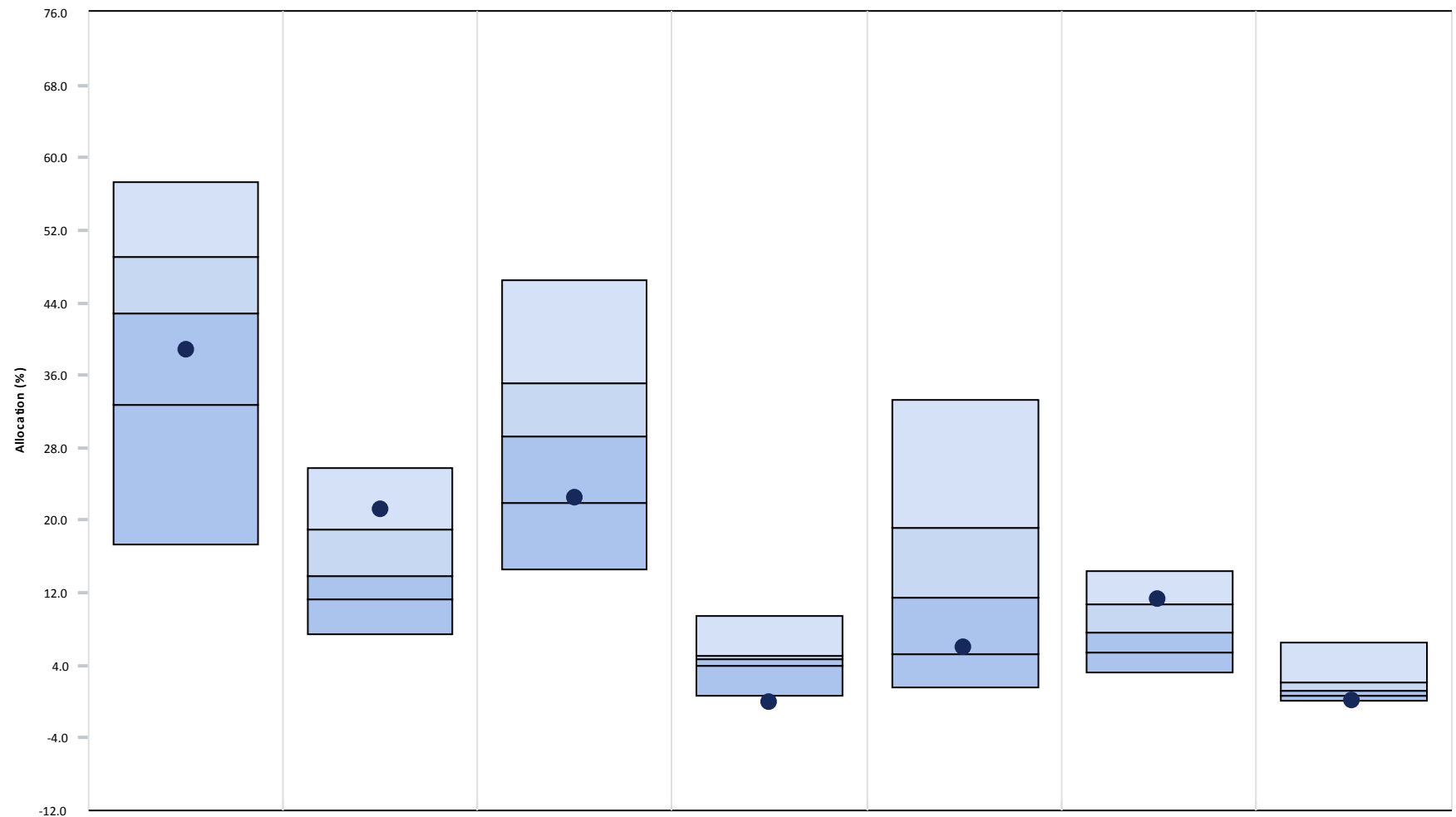
March 31, 2016

	Market Value (\$)	Allocation (%)	Target (%)
US Equity	626,910,514	39.12	39.00
International Equity	348,752,528	21.76	20.00
Fixed Income	361,594,136	22.57	20.50
Real Estate	181,639,090	11.34	15.00
MLPs/Energy	82,689,631	5.16	5.50
Cash	812,628	0.05	0.00
Total Fund	1,602,398,527	100.00	100.00

# City of Jacksonville Police & Fire Pension Fund

All Public Plans-Total Fund

June 30, 2016



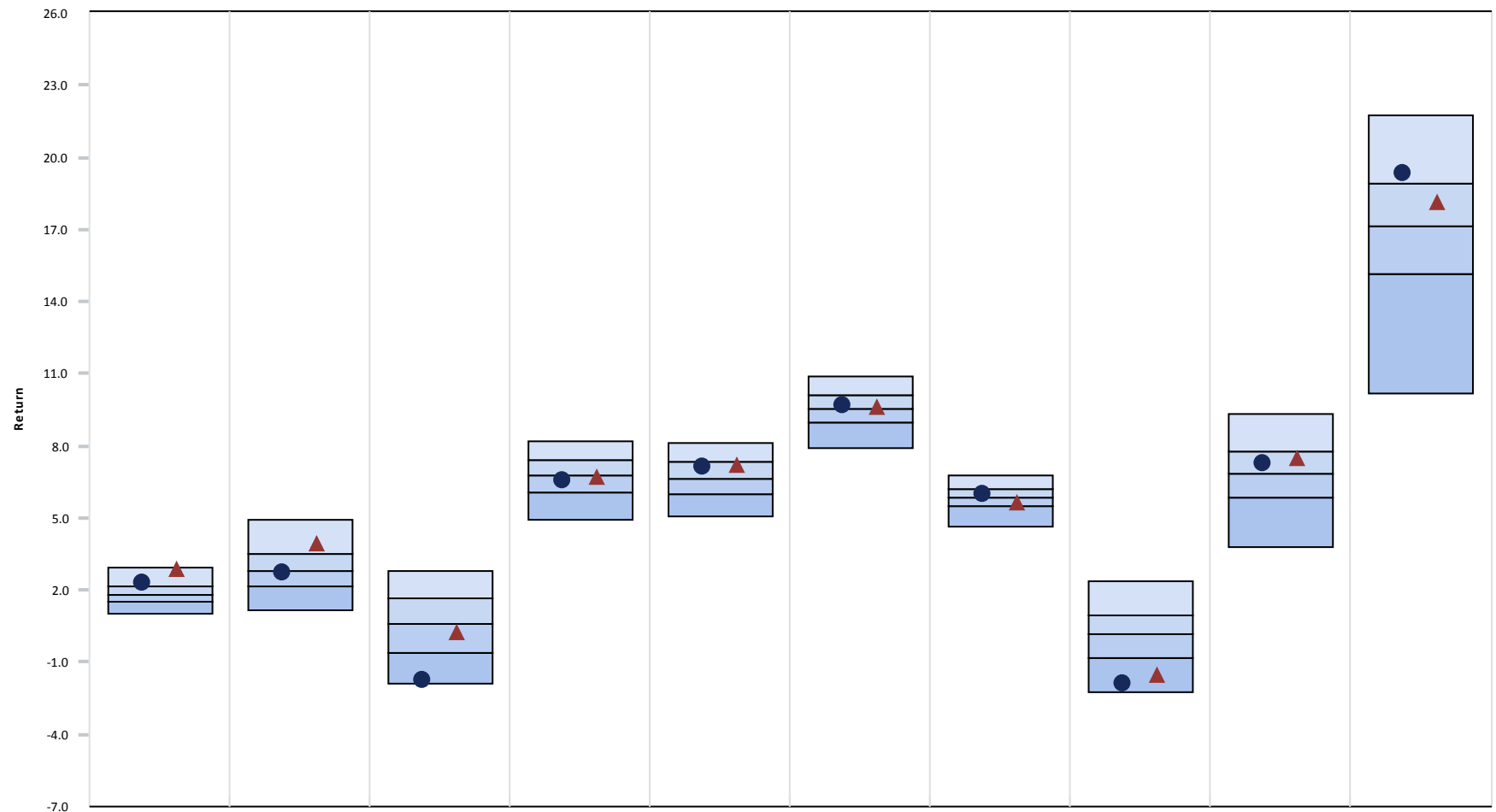
	<u>US Equity</u>	<u>Intl. Equity</u>	<u>US Fixed Income</u>	<u>Intl. Fixed Income</u>	<u>Alternative Inv.</u>	<u>Real Estate</u>	<u>Cash</u>
● Total Fund Composite	38.85 (62)	21.23 (16)	22.49 (74)	0.00	6.00 (70)	11.35 (18)	0.08 (95)
5th Percentile	57.23	25.75	46.50	9.44	33.24	14.42	6.52
1st Quartile	49.04	18.97	35.08	5.13	19.22	10.66	2.20
<b>Median</b>	<b>42.83</b>	<b>13.80</b>	<b>29.24</b>	<b>4.63</b>	<b>11.53</b>	<b>7.54</b>	<b>1.16</b>
3rd Quartile	32.76	11.31	22.00	3.86	5.20	5.45	0.57
95th Percentile	17.37	7.45	14.63	0.66	1.65	3.17	0.08

Parentheses contain percentile rankings.

# City of Jacksonville Police & Fire Pension Fund

All Public Plans-Total Fund

June 30, 2016



	<u>3 Month</u>	<u>CYTD</u>	<u>1 Year</u>	<u>3 Year</u>	<u>5 Year</u>	<u>7 Year</u>	<u>10 Year</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>
● Total Fund Composite	2.27 (21)	2.73 (54)	-1.72 (94)	6.59 (57)	7.11 (32)	9.64 (44)	5.96 (44)	-1.89 (92)	7.26 (38)	19.29 (21)
▲ Total Fund Policy	2.87 (6)	3.89 (15)	0.26 (58)	6.68 (54)	7.21 (27)	9.62 (47)	5.60 (66)	-1.53 (88)	7.44 (33)	18.12 (37)
5th Percentile	2.96	4.91	2.83	8.19	8.11	10.85	6.78	2.34	9.32	21.74
1st Quartile	2.17	3.52	1.63	7.39	7.32	10.08	6.22	0.96	7.77	18.90
<b>Median</b>	<b>1.83</b>	<b>2.82</b>	<b>0.61</b>	<b>6.75</b>	<b>6.65</b>	<b>9.57</b>	<b>5.85</b>	<b>0.14</b>	<b>6.82</b>	<b>17.15</b>
3rd Quartile	1.52	2.15	-0.60	6.08	6.02	8.97	5.47	-0.79	5.82	15.14
95th Percentile	0.99	1.14	-1.88	4.91	5.07	7.88	4.64	-2.27	3.76	10.20

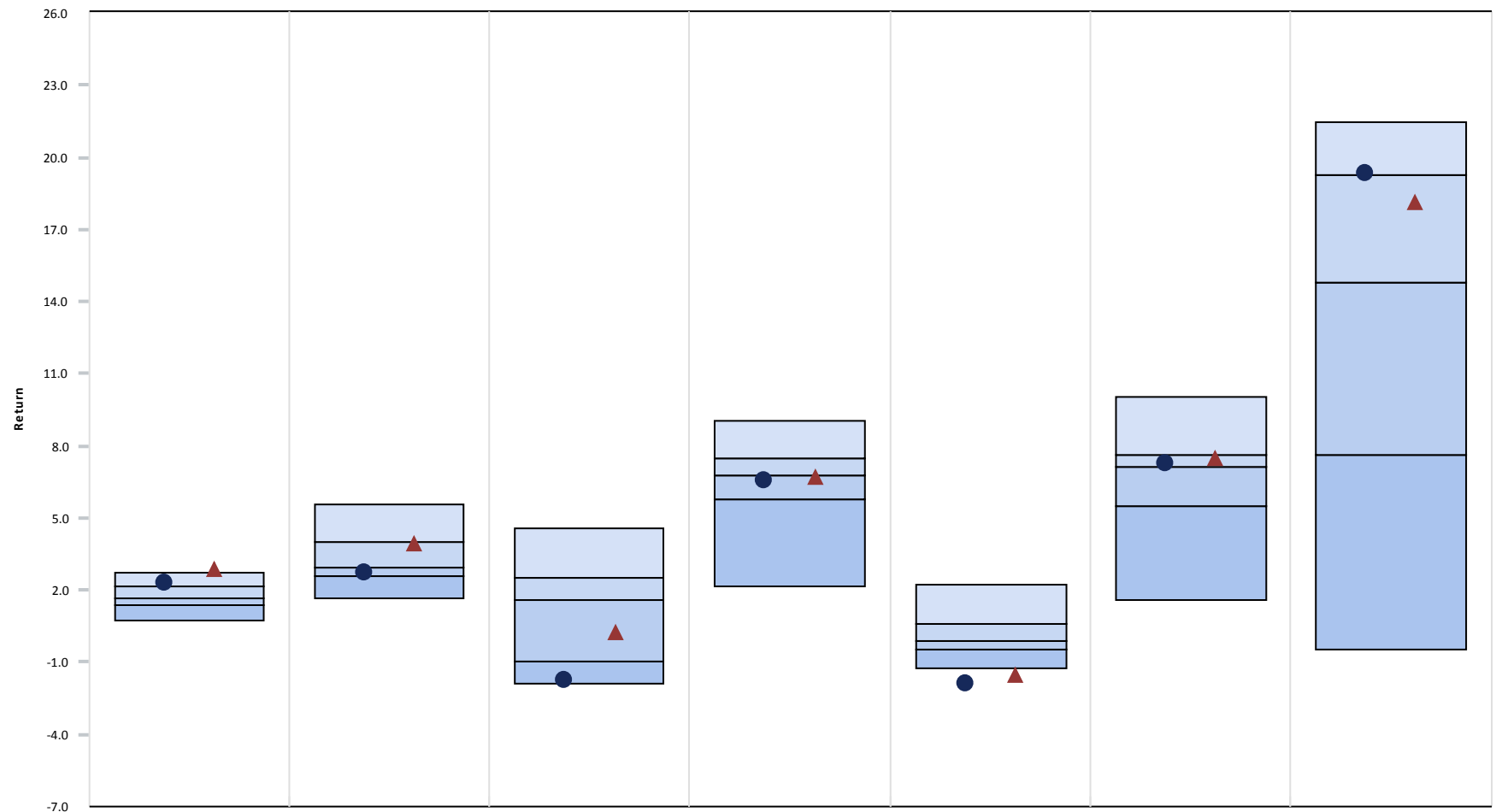
Parentheses contain percentile rankings.



## City of Jacksonville Police & Fire Pension Fund

Public Plans \$500 M to \$2 B excluding Alternatives except Real Estate

June 30, 2016



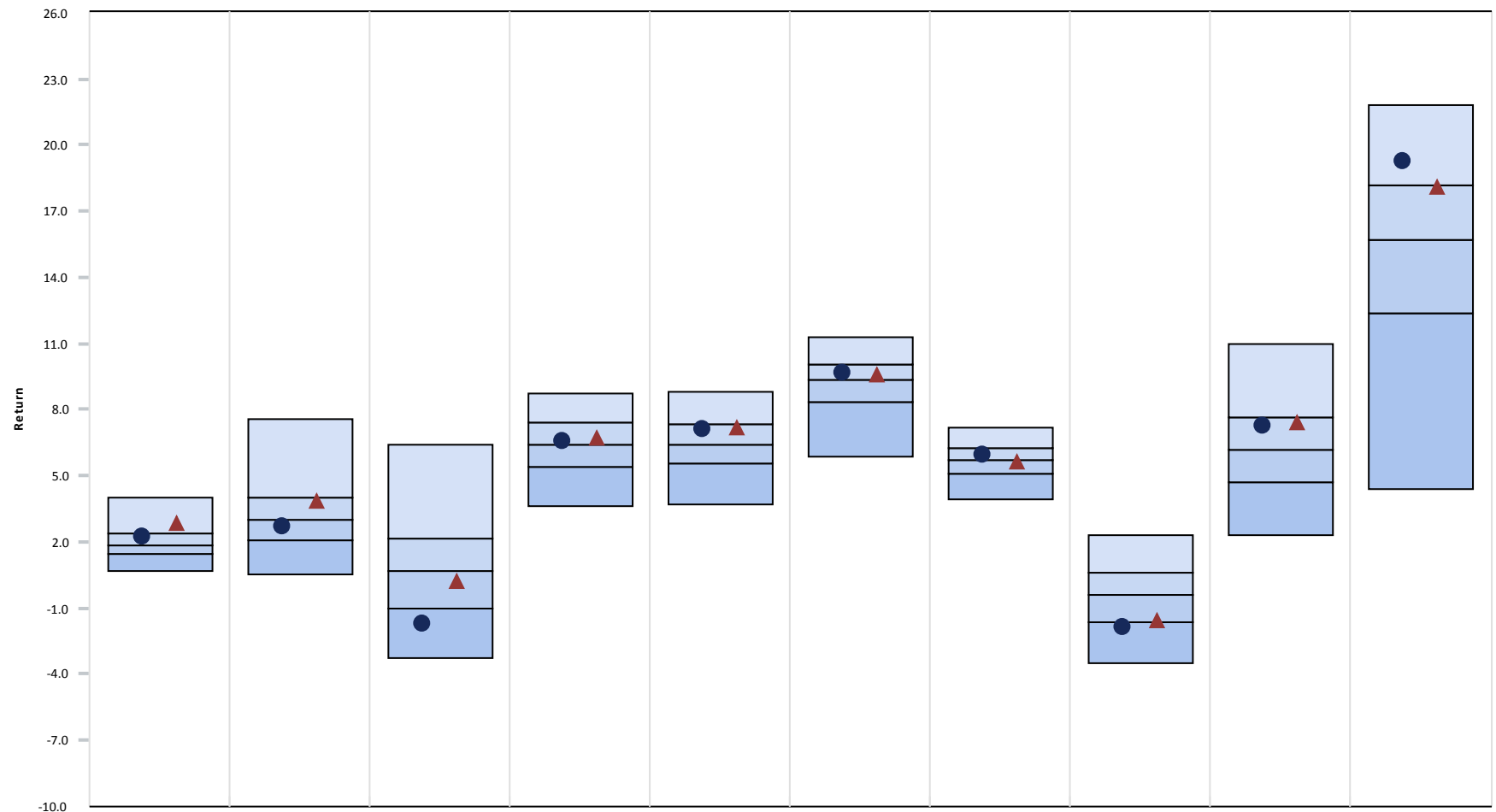
	<u>3 Month</u>	<u>CYTD</u>	<u>1 Year</u>	<u>3 Year</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>
● Total Fund Composite	2.27 (20)	2.73 (60)	-1.72 (93)	6.59 (58)	-1.89 (100)	7.26 (41)	19.29 (25)
▲ Total Fund Policy	2.87 (3)	3.89 (29)	0.26 (60)	6.68 (57)	-1.53 (98)	7.44 (36)	18.12 (31)
5th Percentile	2.76	5.53	4.53	9.00	2.23	10.05	21.46
1st Quartile	2.14	4.02	2.52	7.50	0.62	7.64	19.26
<b>Median</b>	<b>1.67</b>	<b>2.96</b>	<b>1.59</b>	<b>6.80</b>	<b>-0.13</b>	<b>7.15</b>	<b>14.77</b>
3rd Quartile	1.36	2.56	-0.93	5.76	-0.48	5.52	7.63
95th Percentile	0.72	1.62	-1.90	2.13	-1.28	1.59	-0.46

Parentheses contain percentile rankings.

# City of Jacksonville Police & Fire Pension Fund

All Master Trust - Total Fund

June 30, 2016



	<u>3 Month</u>	<u>CYTD</u>	<u>1 Year</u>	<u>3 Year</u>	<u>5 Year</u>	<u>7 Year</u>	<u>10 Year</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>
● Total Fund Composite	2.27 (29)	2.73 (58)	-1.72 (85)	6.59 (47)	7.11 (32)	9.64 (38)	5.96 (37)	-1.89 (79)	7.26 (31)	19.29 (17)
▲ Total Fund Policy	2.87 (14)	3.89 (27)	0.26 (58)	6.68 (44)	7.21 (28)	9.62 (40)	5.60 (54)	-1.53 (73)	7.44 (28)	18.12 (26)
5th Percentile	4.01	7.60	6.42	8.76	8.79	11.26	7.20	2.33	10.99	21.84
1st Quartile	2.39	3.99	2.18	7.42	7.34	10.06	6.26	0.63	7.68	18.20
<b>Median</b>	<b>1.88</b>	<b>2.99</b>	<b>0.65</b>	<b>6.45</b>	<b>6.43</b>	<b>9.33</b>	<b>5.68</b>	<b>-0.41</b>	<b>6.21</b>	<b>15.68</b>
3rd Quartile	1.47	2.05	-1.01	5.38	5.55	8.38	5.07	-1.65	4.71	12.36
95th Percentile	0.68	0.52	-3.30	3.63	3.73	5.89	3.95	-3.46	2.32	4.43

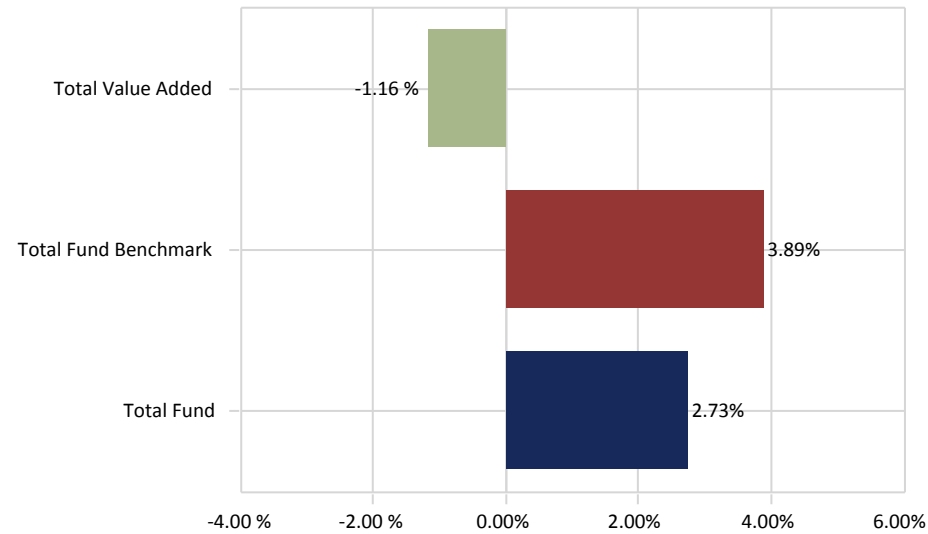
Parentheses contain percentile rankings.

# City of Jacksonville Police & Fire Pension Fund

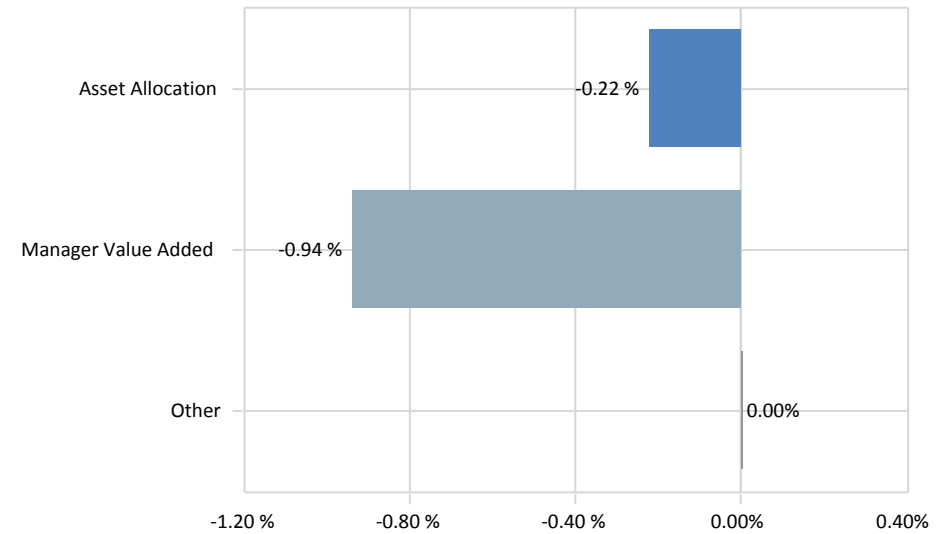
Total Fund Attribution

Year To Date Ending June 30, 2016

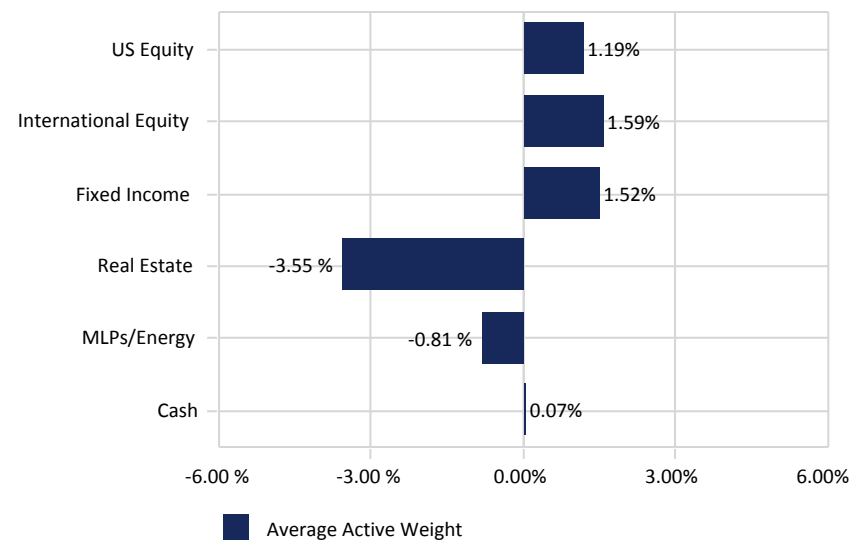
## Total Fund Performance



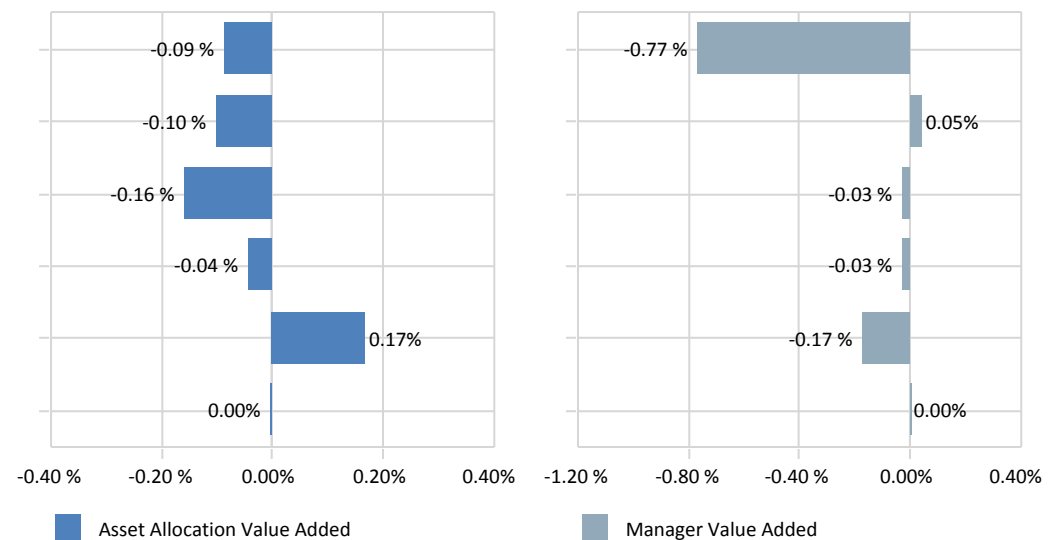
## Total Value Added:-1.16 %



## Total Asset Allocation:-0.22 %



## Total Manager Value Added:-0.94 %

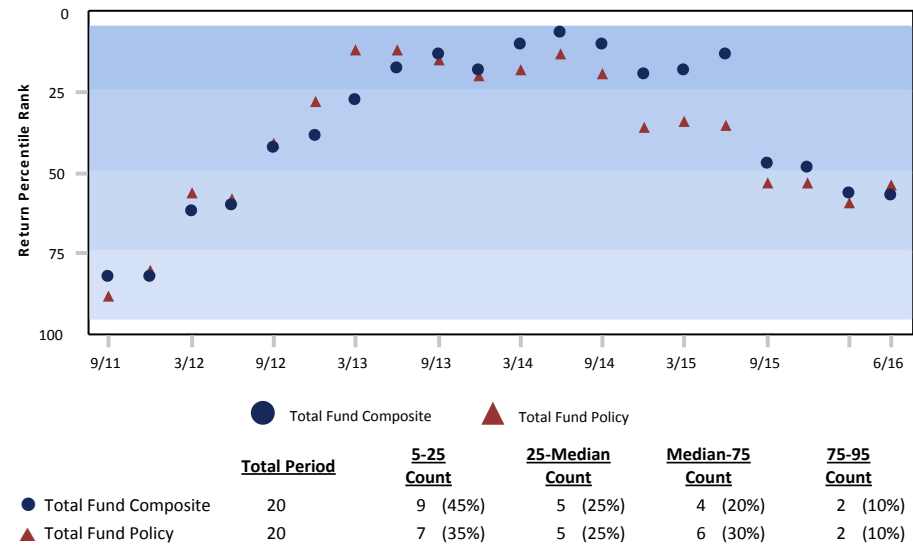


City of Jacksonville Police & Fire Pension Fund

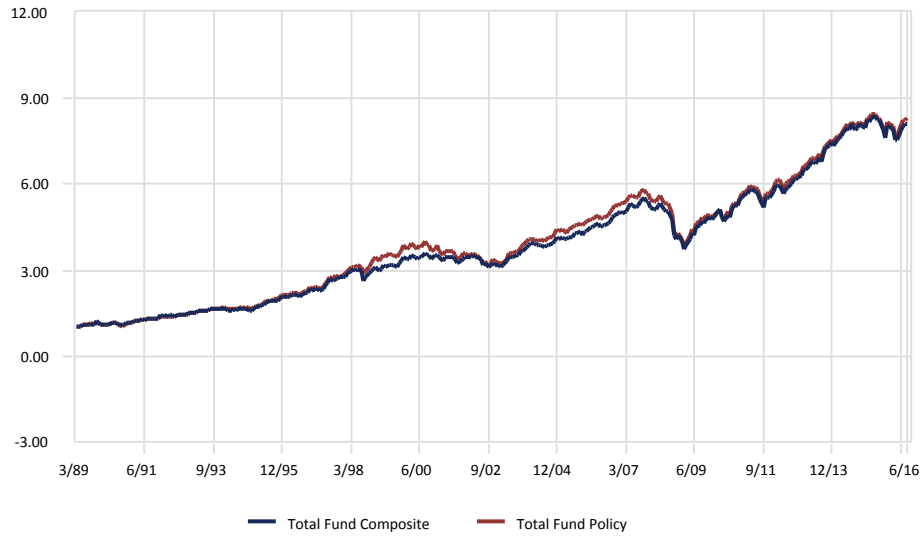
Total Fund Composite

June 30, 2016

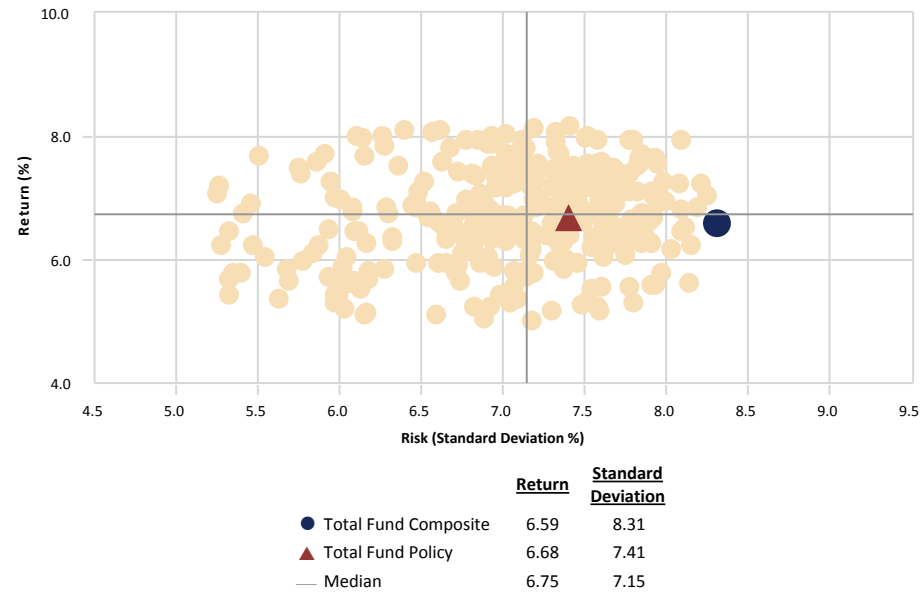
3 Year Rolling Return Rank



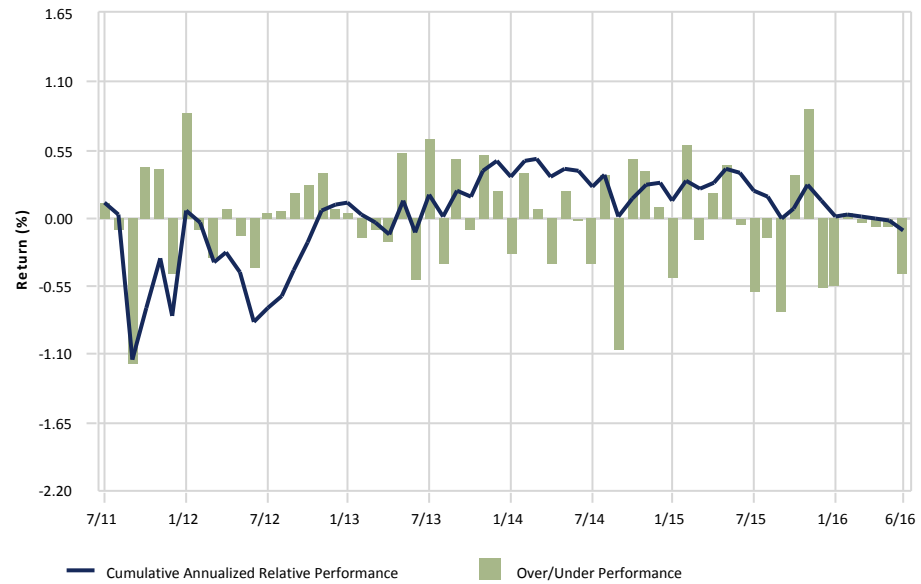
Growth of \$1 - Since Inception (04/01/89)



Risk vs. Return (07/01/13 - 06/30/16)



Relative Performance vs. Total Fund Policy

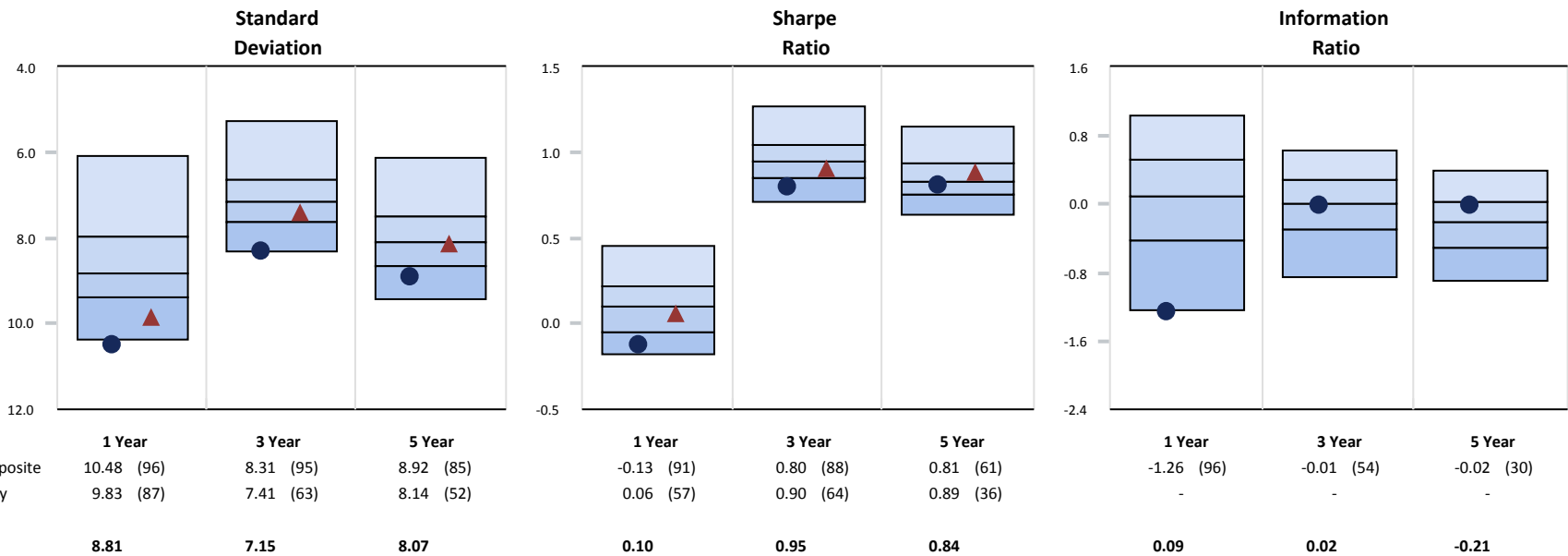


# City of Jacksonville Police & Fire Pension Fund

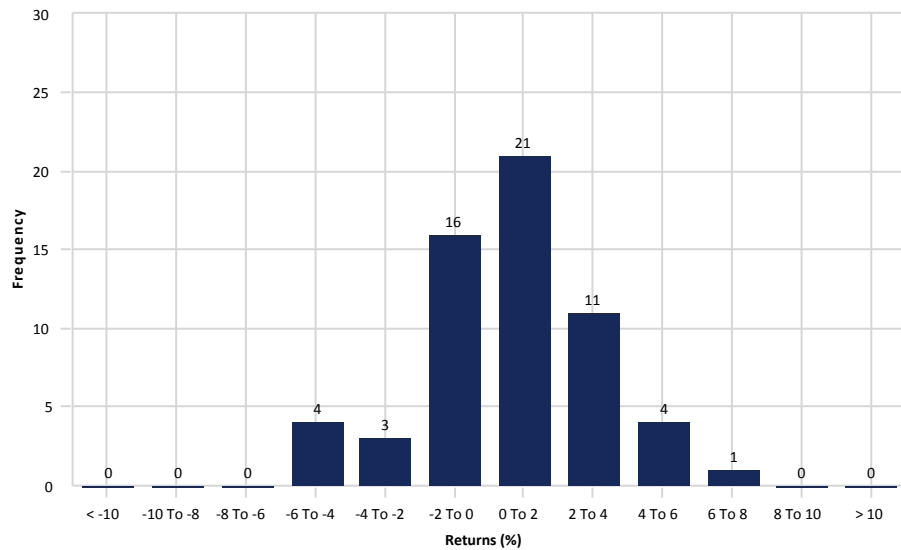
Total Fund Composite

June 30, 2016

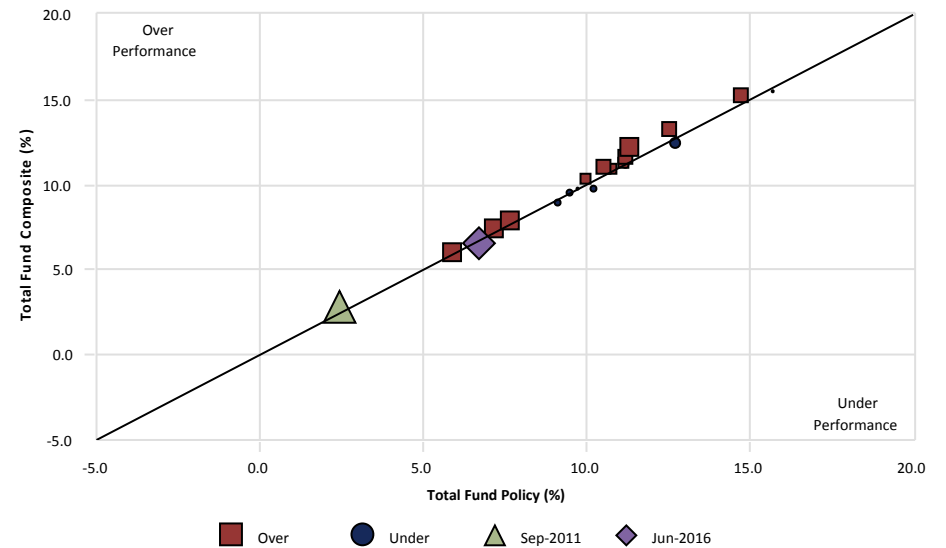
## Peer Group Analysis: All Public Plans-Total Fund



## Monthly Distribution of Returns



## 3 Year Rolling Under/Over Performance



**US Equity**

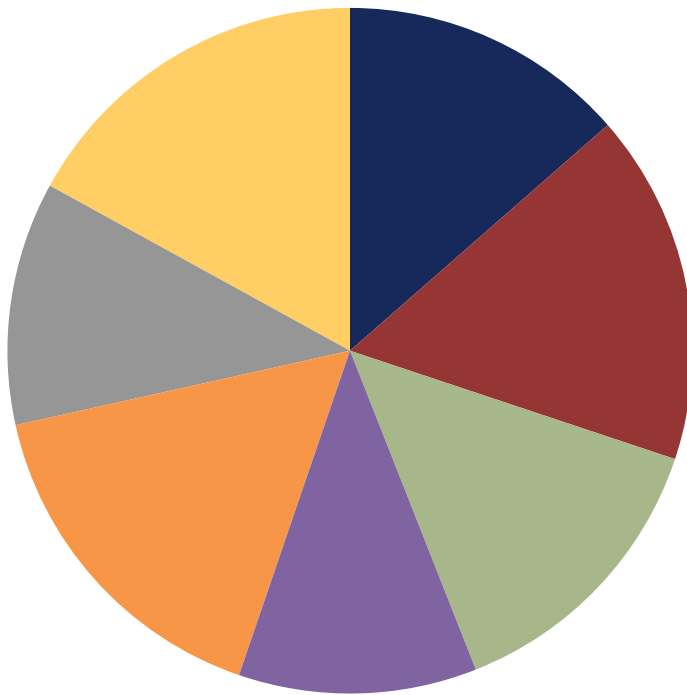
# City of Jacksonville Police & Fire Pension Fund

US Equity vs. Russell 3000 Index

June 30, 2016

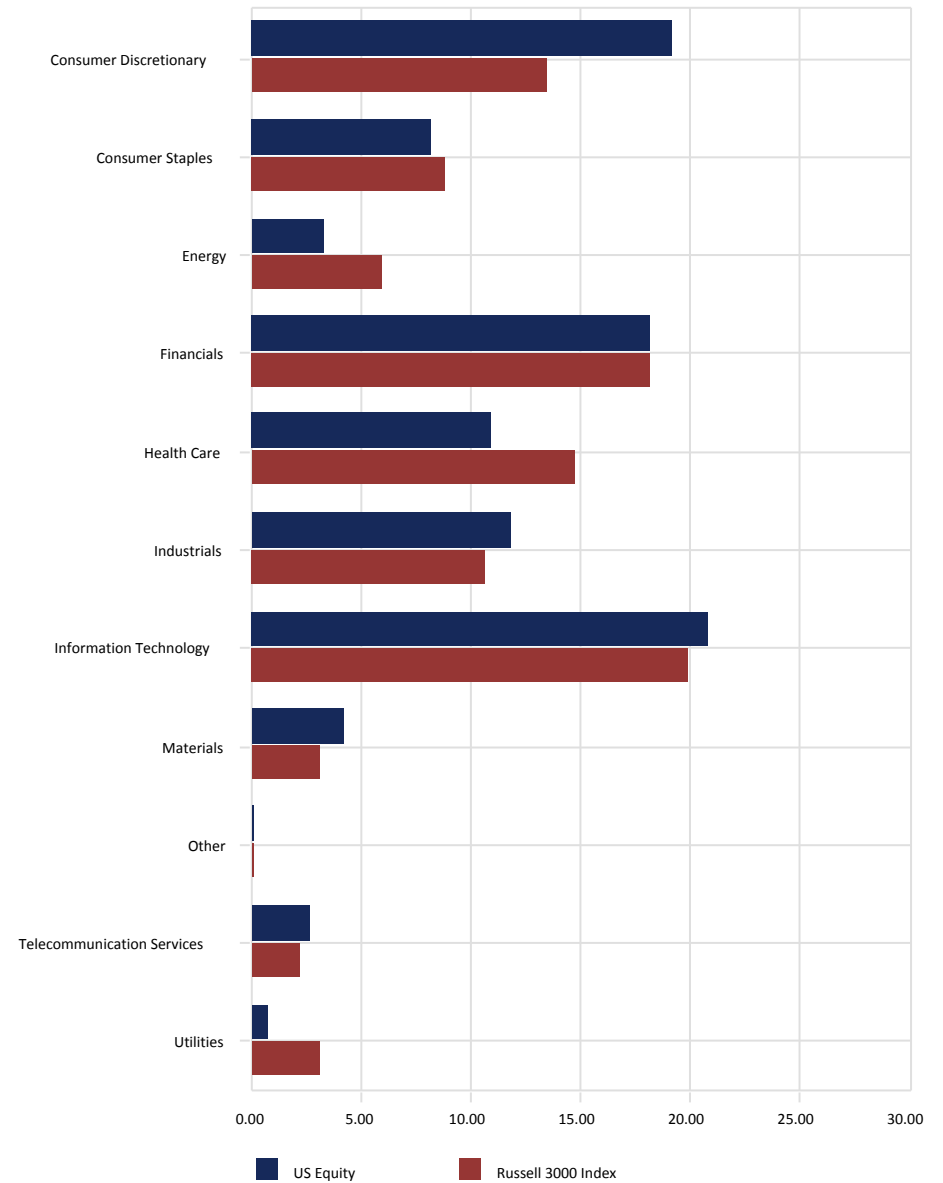
## Manager Allocation

June 30, 2016 : \$636,040,652



	Market Value (\$)	Allocation (%)
NT S&P 500 Index Fund	86,222,860	13.56
DePrince Race & Zollo	105,330,744	16.56
Pinnacle	88,391,834	13.90
GAMCO	71,451,061	11.23
Eagle Capital Management	103,489,561	16.27
Brown Investment Advisory	73,004,734	11.48
Sawgrass Asset Management	108,149,858	17.00

## Sector Allocation - Holdings Based

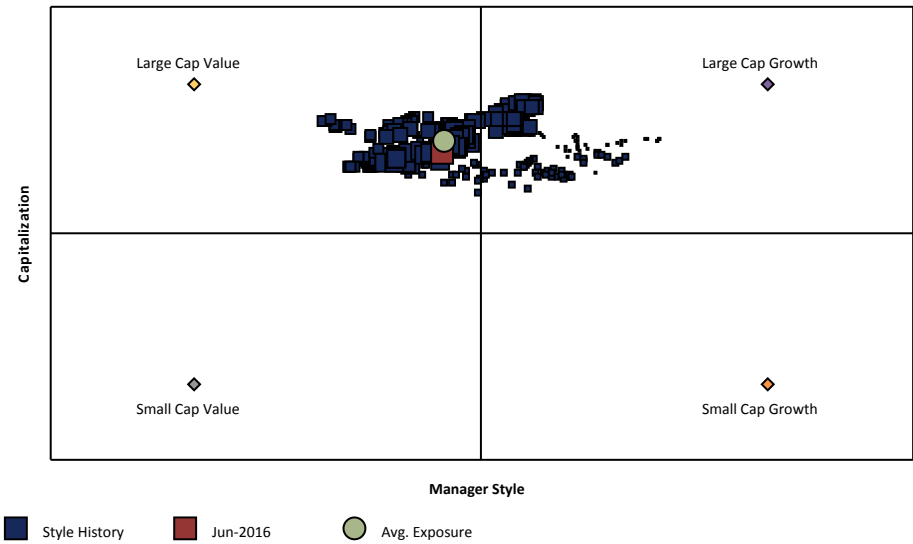


City of Jacksonville Police & Fire Pension Fund

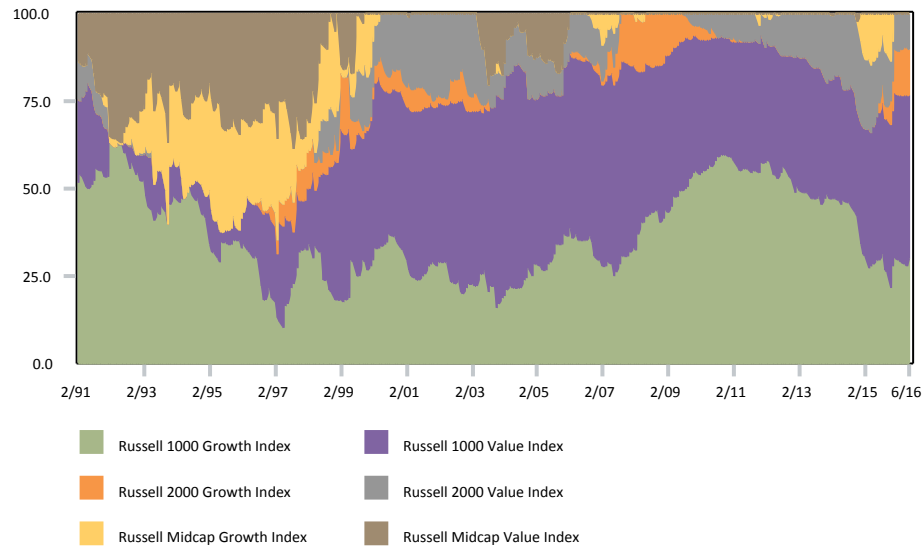
US Equity vs. Russell 3000 Index

June 30, 2016

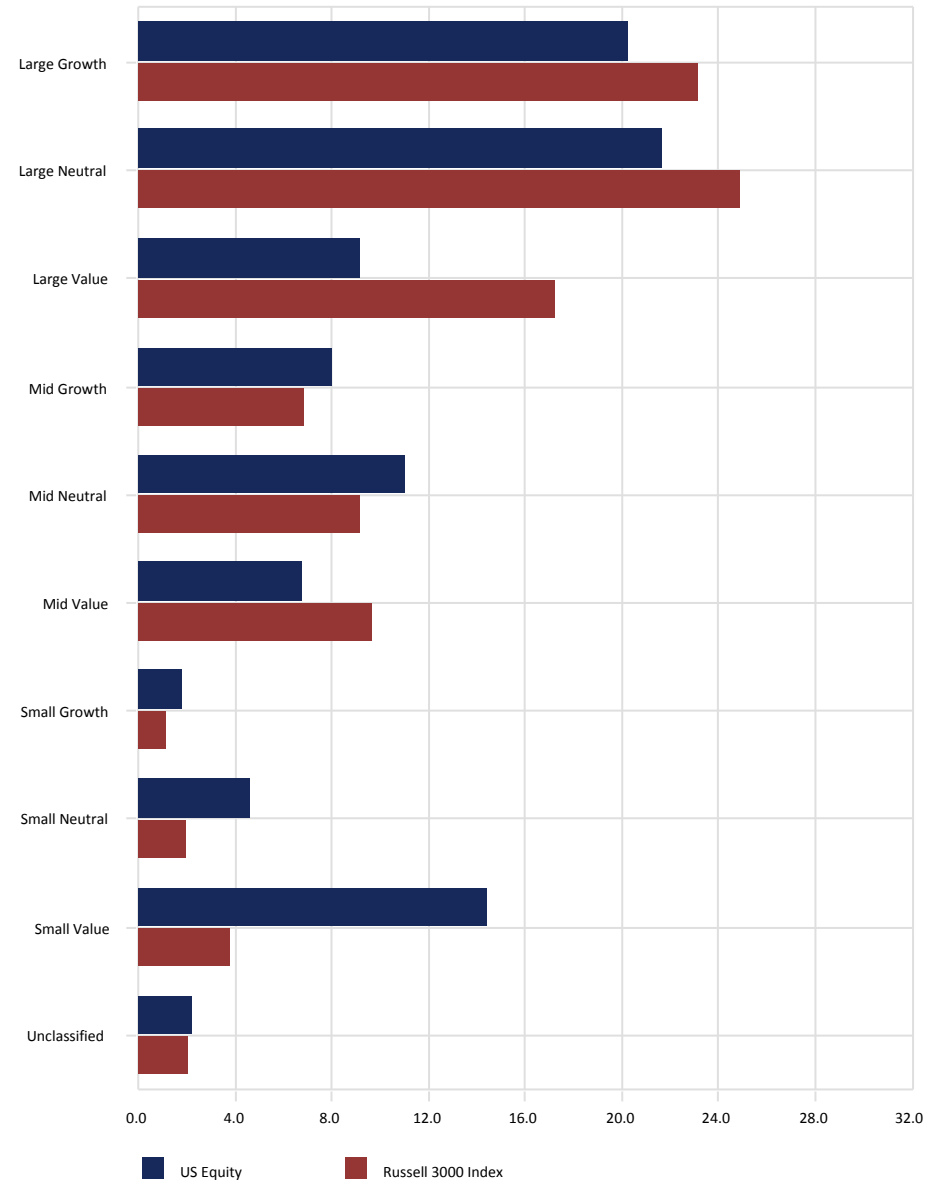
Style Analysis - Returns Based



3 Year Style Analysis



Style Allocation - Holdings Based

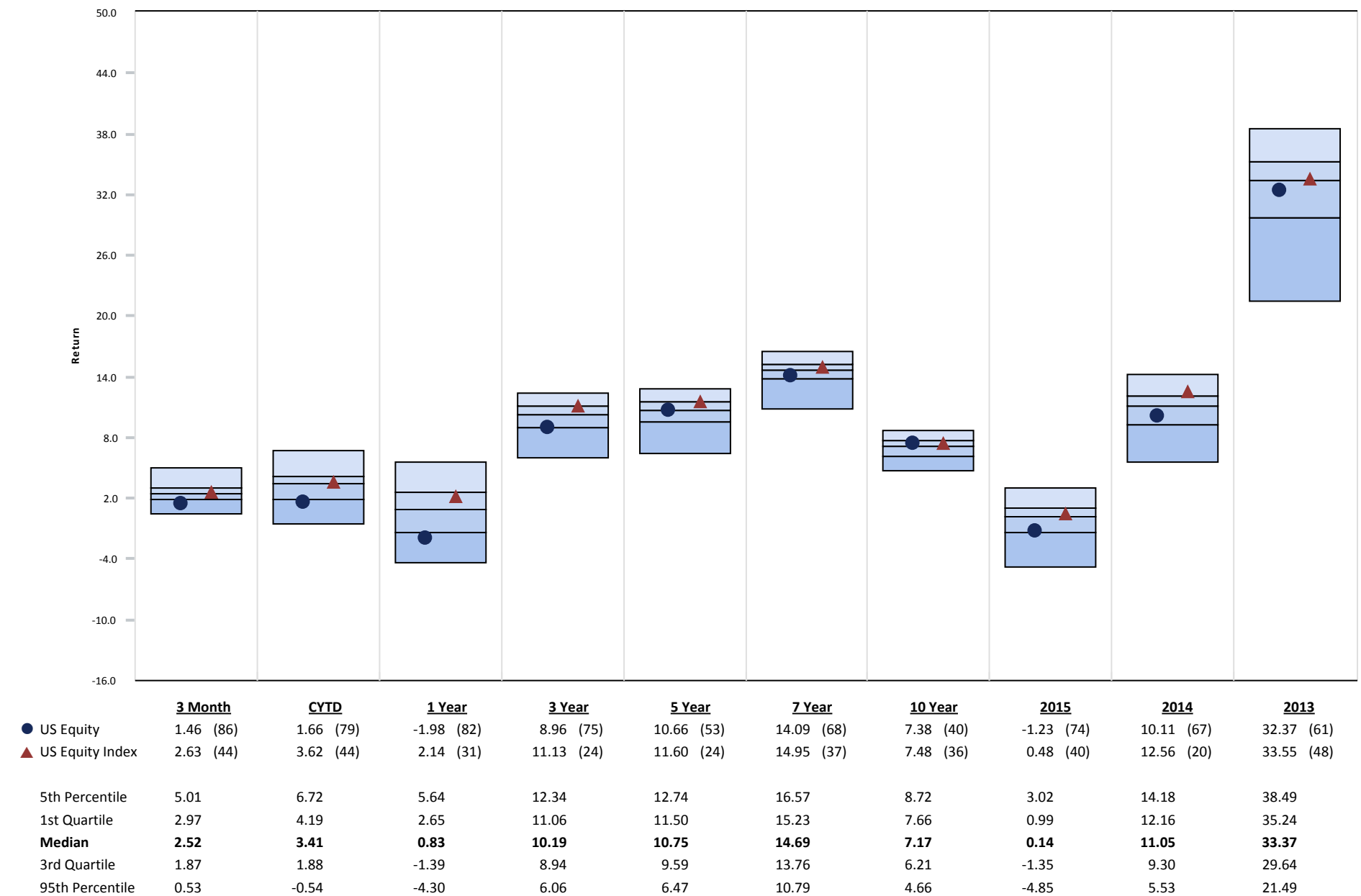




# City of Jacksonville Police & Fire Pension Fund

All Master Trust-US Equity Segment

June 30, 2016



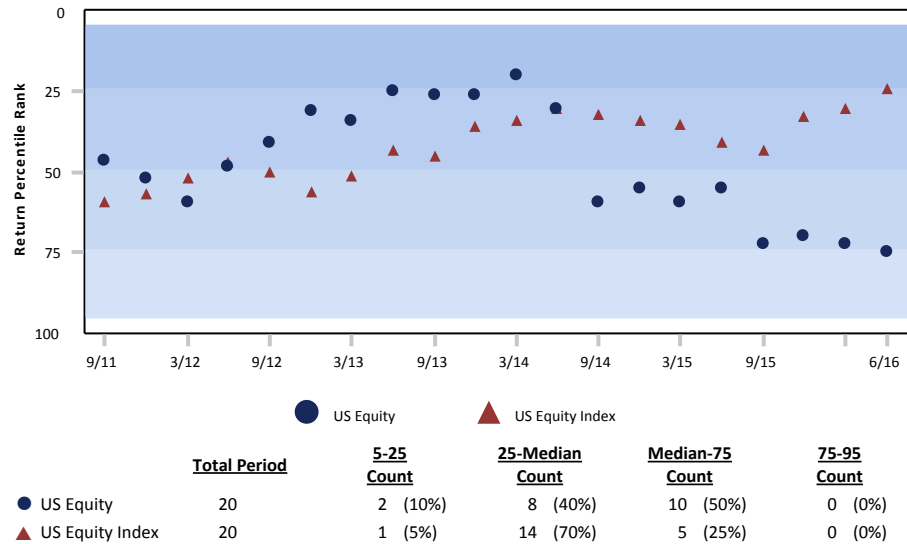
Parentheses contain percentile rankings.

# City of Jacksonville Police & Fire Pension Fund

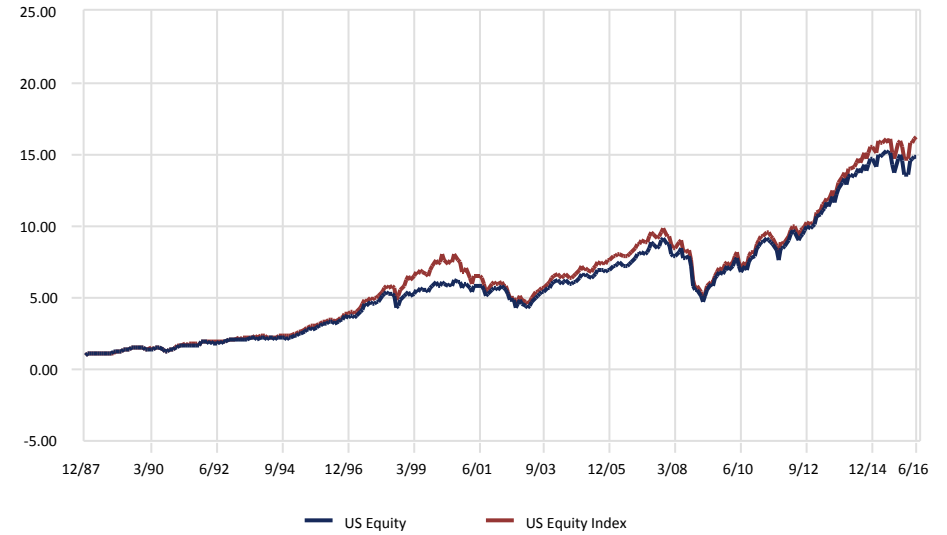
US Equity

June 30, 2016

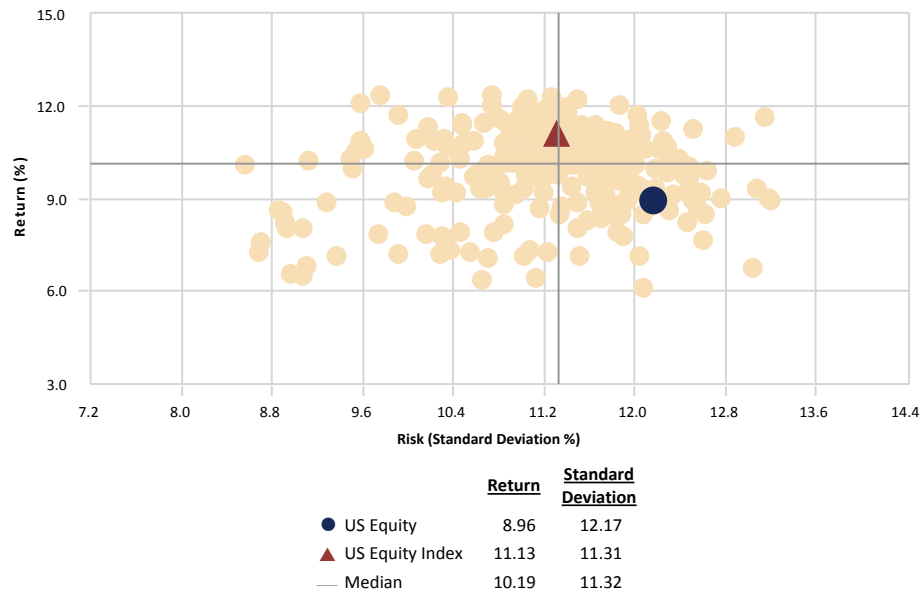
## 3 Year Rolling Return Rank



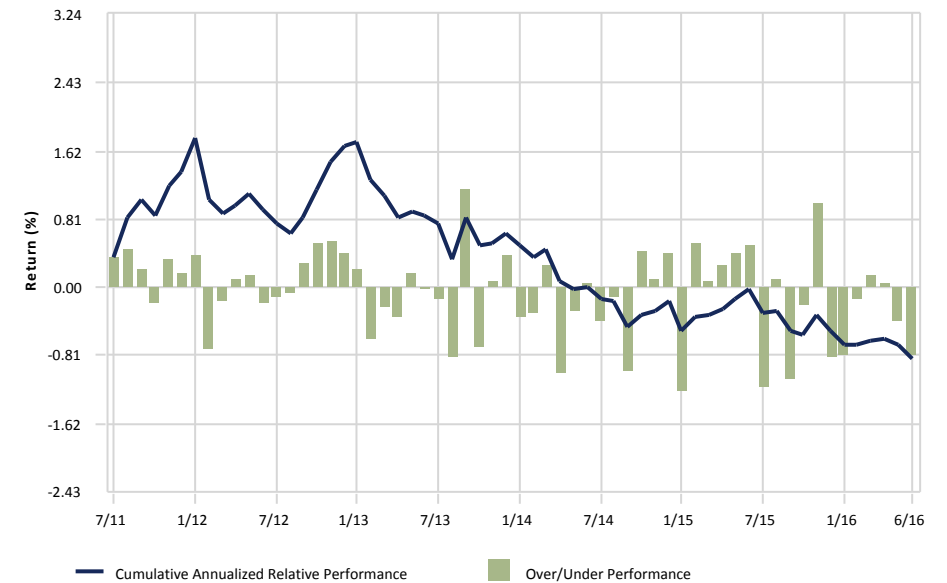
## Growth of \$1 - Since Inception (01/01/88)



## Risk vs. Return (07/01/13 - 06/30/16)



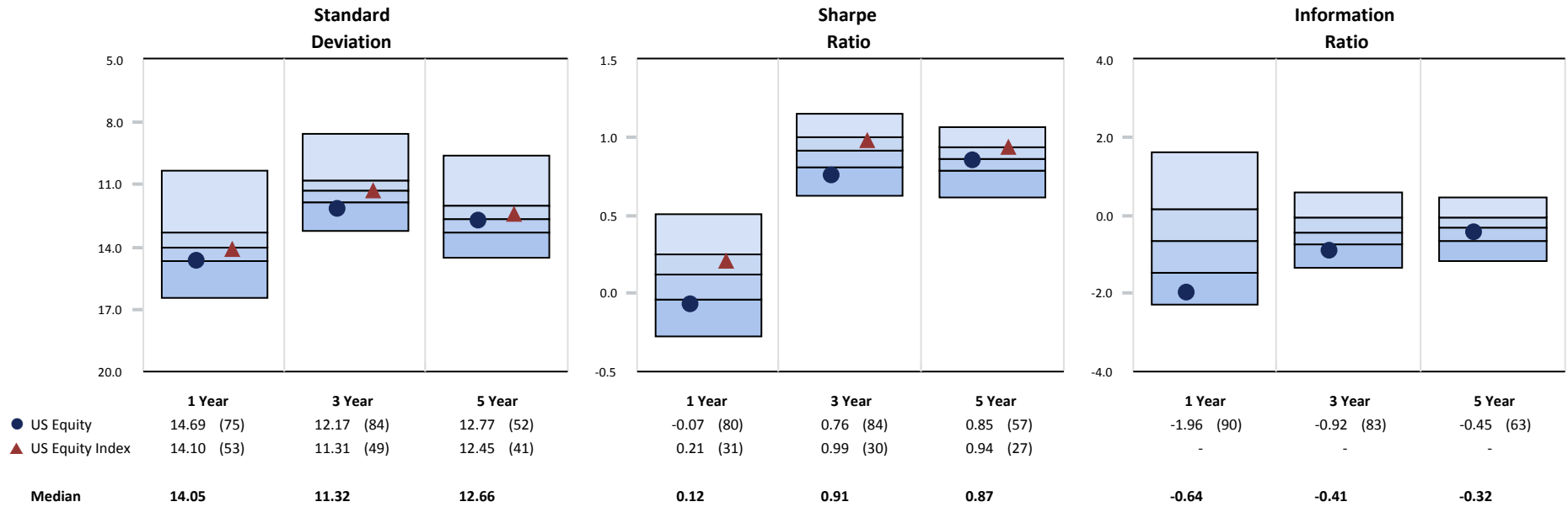
## Relative Performance vs. US Equity Index



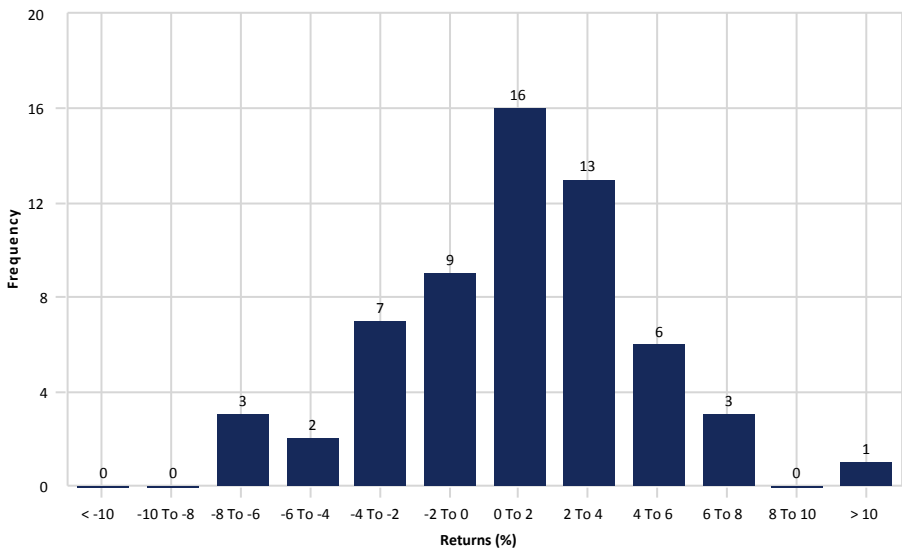
City of Jacksonville Police & Fire Pension Fund

US Equity  
June 30, 2016

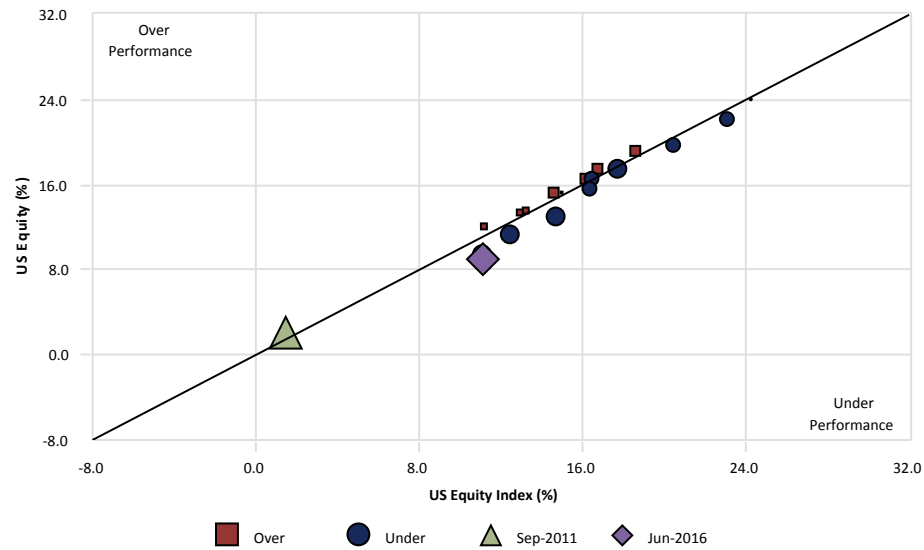
Peer Group Analysis: All Master Trust-US Equity Segment



Monthly Distribution of Returns



3 Year Rolling Under/Over Performance

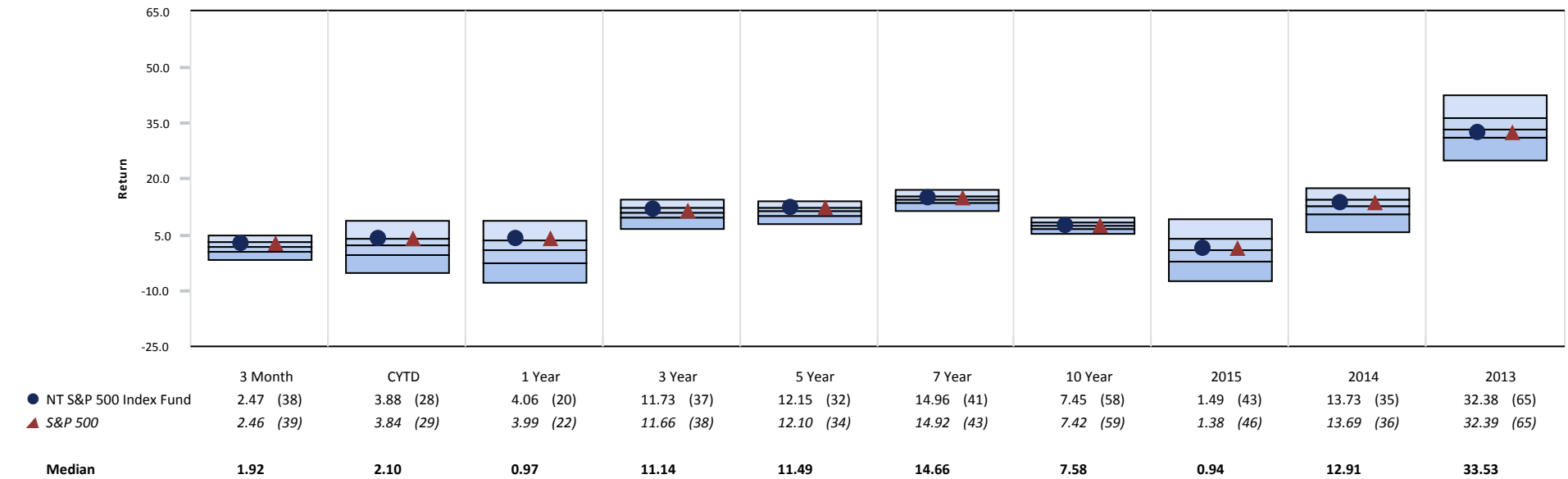


City of Jacksonville Police & Fire Pension Fund

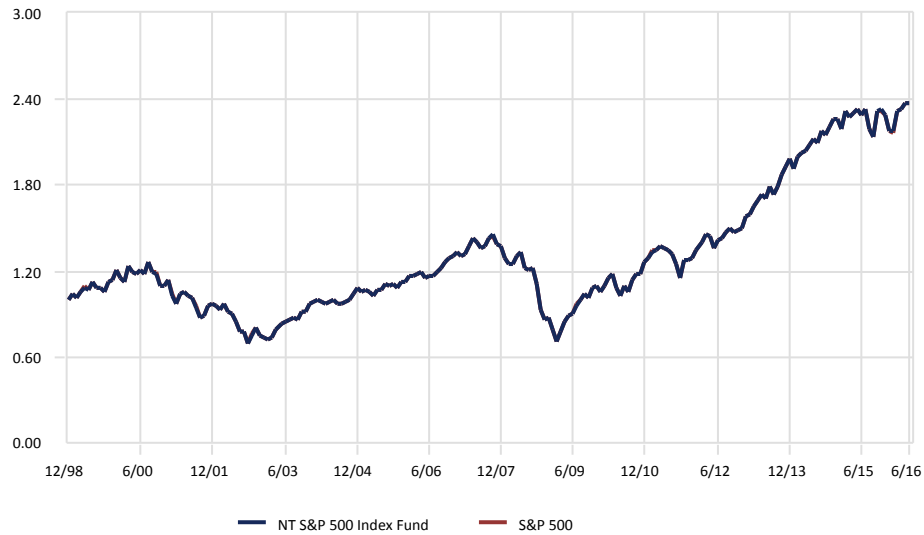
NT S&P 500 Index Fund

June 30, 2016

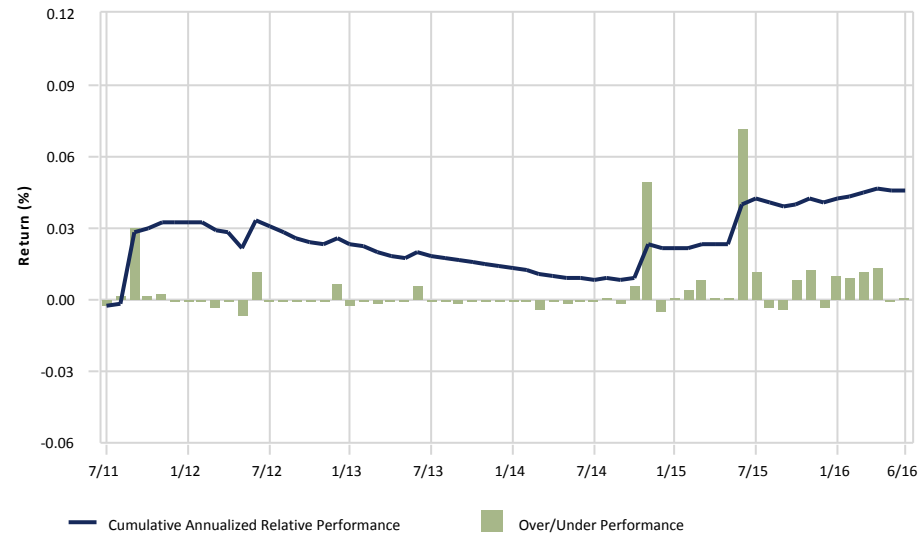
Peer Group Analysis - IM U.S. Large Cap Equity (SA+CF)



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



Relative Performance vs. S&P 500



gross of fees

# City of Jacksonville Police & Fire Pension Fund

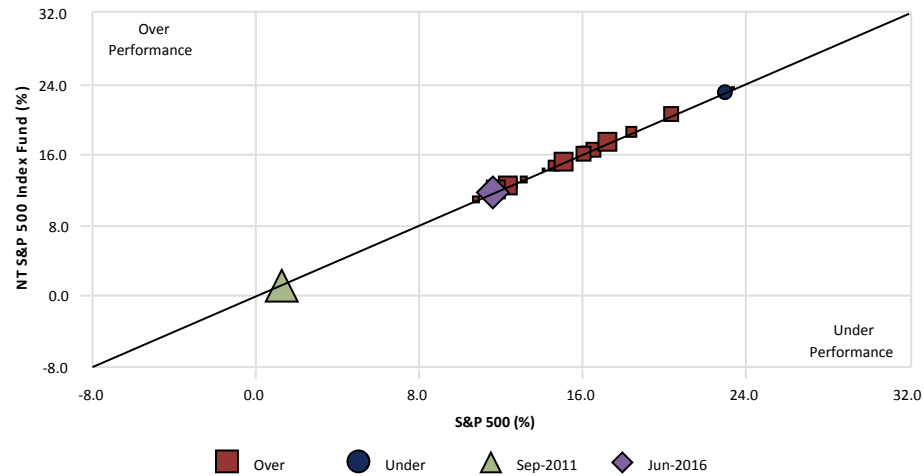
NT S&P 500 Index Fund

June 30, 2016

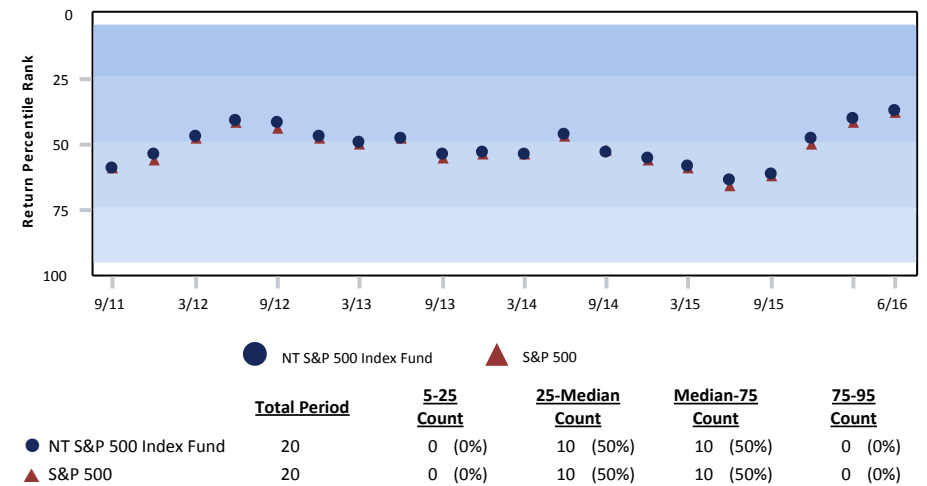
## 3 Year Portfolio Statistics

	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	0.07	0.06	1.00	1.00	0.05	1.26	1.05	50.00	100.17	99.75	1.00
S&P 500	0.00	0.00	1.00	1.00	0.00	-	1.05	0.00	100.00	100.00	1.00
90 Day US Treasury Bill	-11.59	0.07	0.00	0.01	11.10	-1.05	-	36.11	0.15	-0.33	-0.07

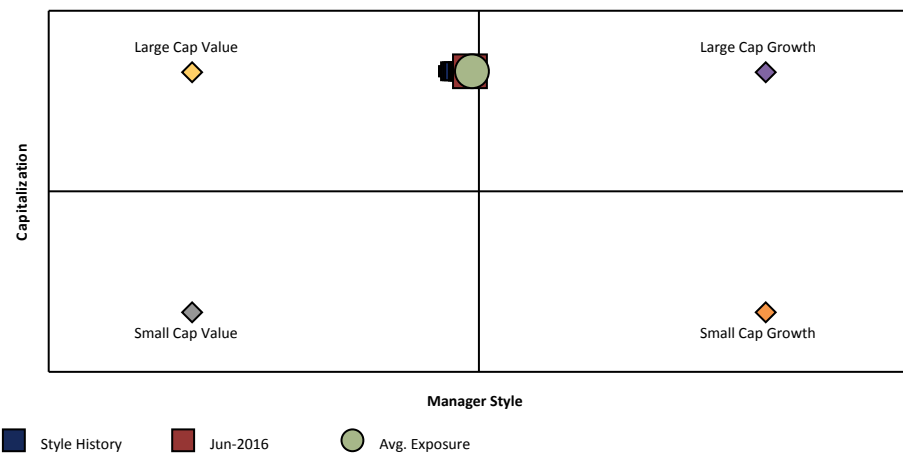
## 3 Year Rolling Under/Over Performance



## 3 Year Rolling Relative Ranking

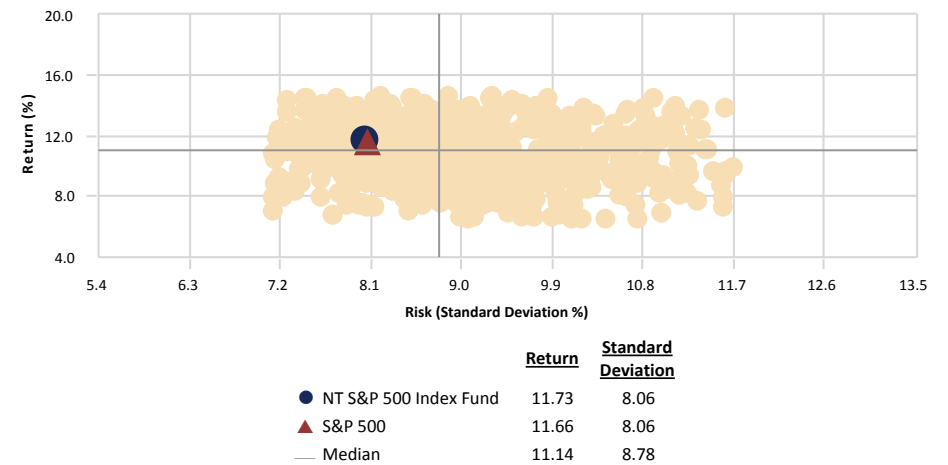


## 3 Year Style Analysis



gross of fees

## Risk vs. Return (07/01/13 - 06/30/16)



# City of Jacksonville Police & Fire Pension Fund

NT S&P 500 Index Fund vs. S&P 500

June 30, 2016

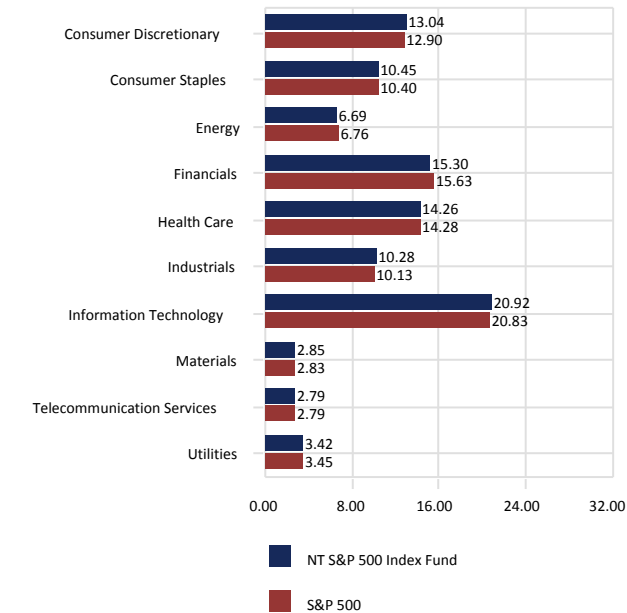
## Ten Best Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Paragon Offshore Plc	0.00	0.00	0.00	233.34
ONEOK Inc.	0.06	0.05	0.01	61.66
Southwestern Energy Co	0.03	0.03	0.00	55.89
Newmont Mining Corp	0.11	0.11	0.00	47.28
St. Jude Medical Inc.	0.12	0.12	0.00	42.39
Williams Cos Inc. (The)	0.08	0.08	0.00	38.49
Marathon Oil Corp	0.07	0.07	0.00	35.27
Range Resources Corp.	0.04	0.04	0.00	33.29
Newfield Exploration Co	0.05	0.05	0.00	32.87
Devon Energy Corp	0.10	0.10	0.00	32.33
% of Portfolio	0.66	0.65		

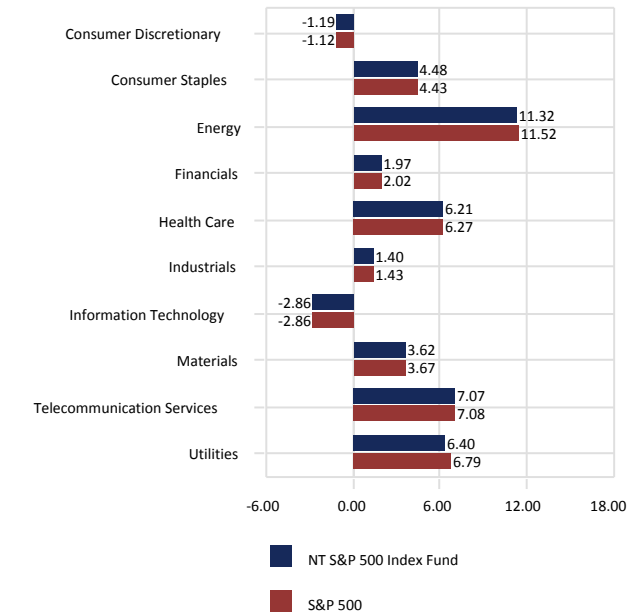
## Ten Worst Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Seventy Seven Energy Inc	0.00	0.00	0.00	-84.12
Endo International plc	0.02	0.02	0.00	-44.62
Signet Jewelers Ltd	0.03	0.04	-0.01	-33.40
Nordstrom Inc.	0.03	0.03	0.00	-32.84
United Continental Holdings Inc	0.08	0.08	0.00	-31.44
American Airlines Group Inc	0.09	0.09	0.00	-30.77
First Solar Inc	0.02	0.02	0.00	-29.19
Perrigo Co Plc	0.07	0.07	0.00	-29.02
Alaska Air Group Inc.	0.04	0.04	0.00	-28.63
Gap Inc	0.03	0.03	0.00	-27.26
% of Portfolio	0.41	0.42		

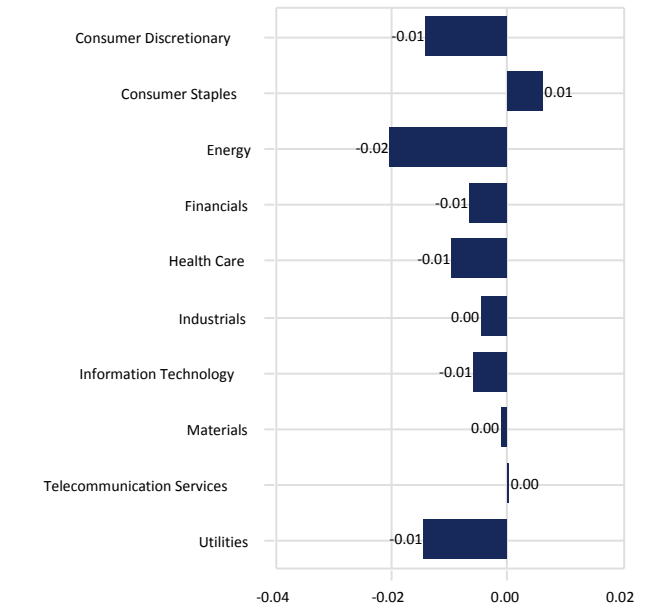
## Sector Allocation



## Sector Performance



## Total Sector Attribution



# City of Jacksonville Police & Fire Pension Fund

NT S&P 500 Index Fund vs. S&P 500

June 30, 2016

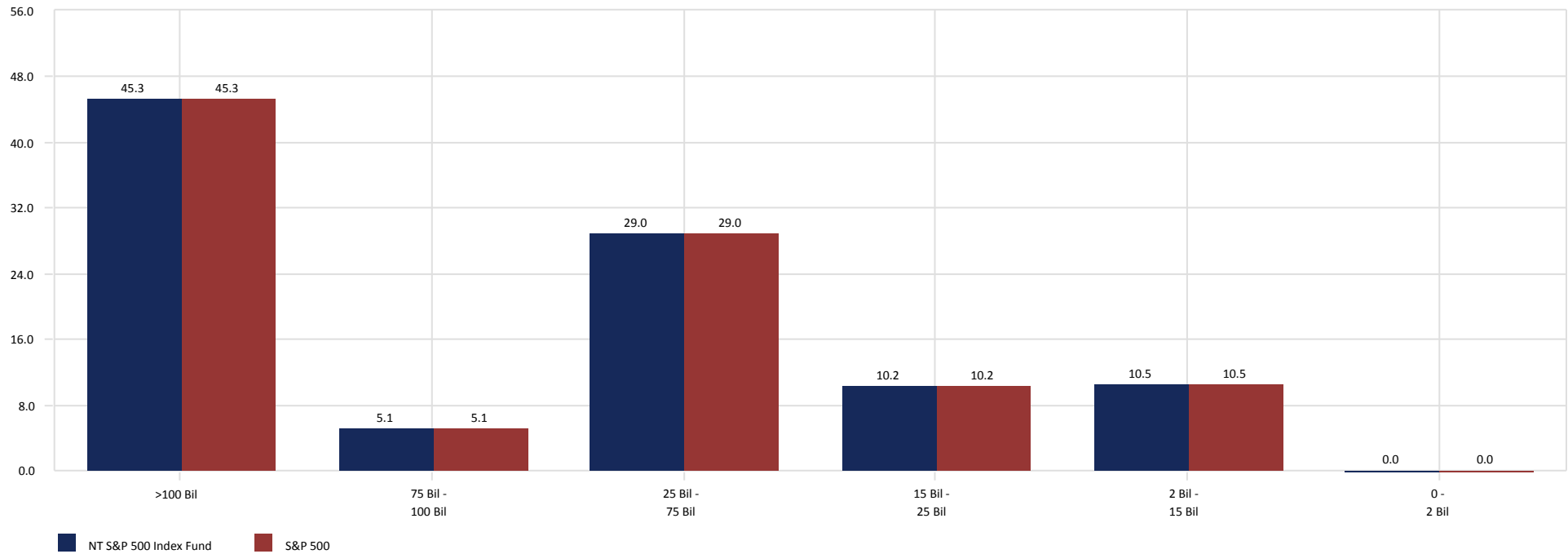
## Portfolio Characteristics

	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$000)	135,968,074	135,963,884
Median Mkt. Cap (\$000)	18,152,365	18,207,853
Price/Earnings ratio	19.64	19.64
Price/Book ratio	3.17	3.17
5 Yr. EPS Growth Rate (%)	5.89	5.89
Current Yield (%)	2.19	2.19
Beta (5 Years, Monthly)	1.00	1.00
Number of Stocks	511	505

## Top Ten Equity Holdings

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Apple Inc	2.88	2.88	0.00	-11.75
Microsoft Corp	2.21	2.21	0.00	-6.69
Exxon Mobil Corp	2.14	2.14	0.00	13.09
Johnson & Johnson	1.83	1.83	0.00	12.90
General Electric Co	1.59	1.59	0.00	-0.23
Amazon.com Inc	1.52	1.52	0.00	20.55
Berkshire Hathaway Inc	1.49	1.49	0.00	2.05
AT&T Inc	1.46	1.46	0.00	11.68
Facebook Inc	1.45	1.45	0.00	0.16
Verizon Communications Inc	1.25	1.25	0.00	4.34
% of Portfolio	17.82	17.82		

## Distribution of Market Capitalization (%)

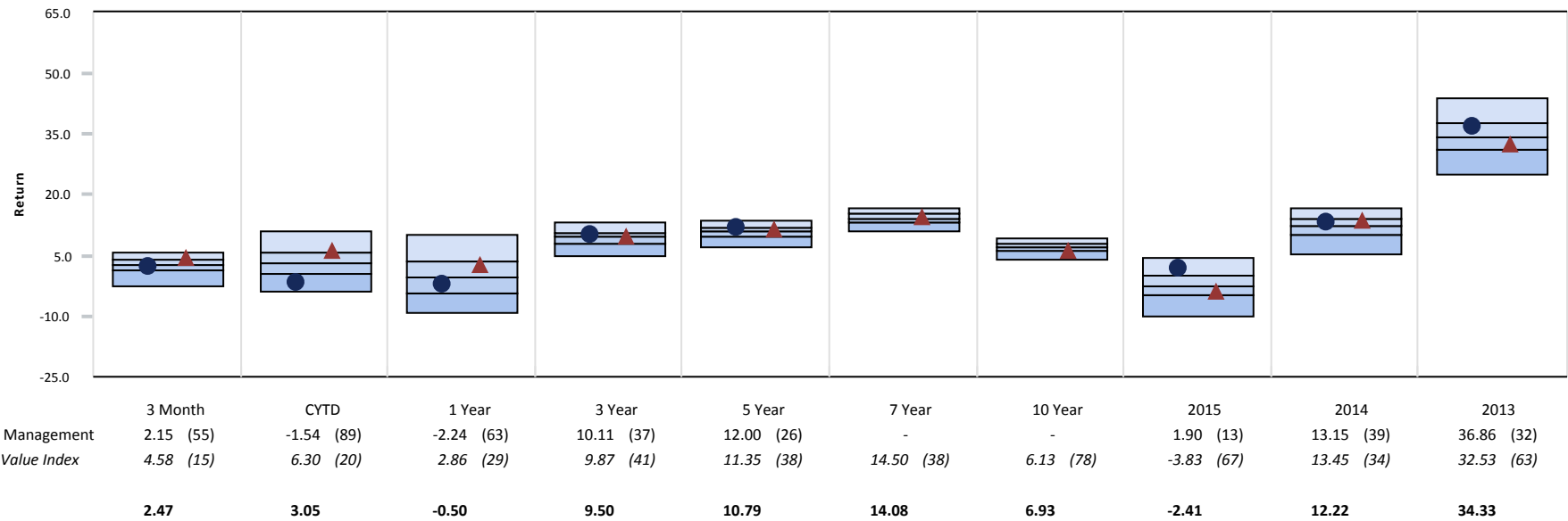


# City of Jacksonville Police & Fire Pension Fund

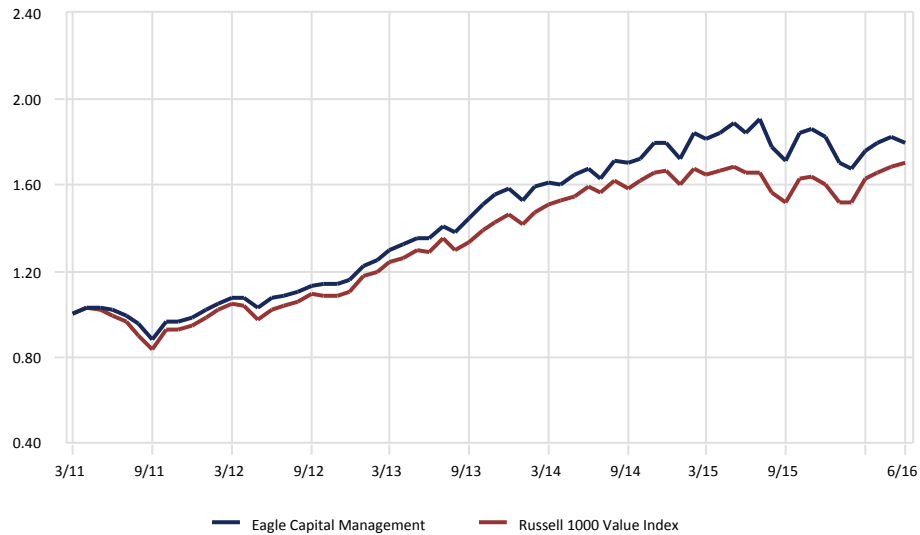
Eagle Capital Management

June 30, 2016

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

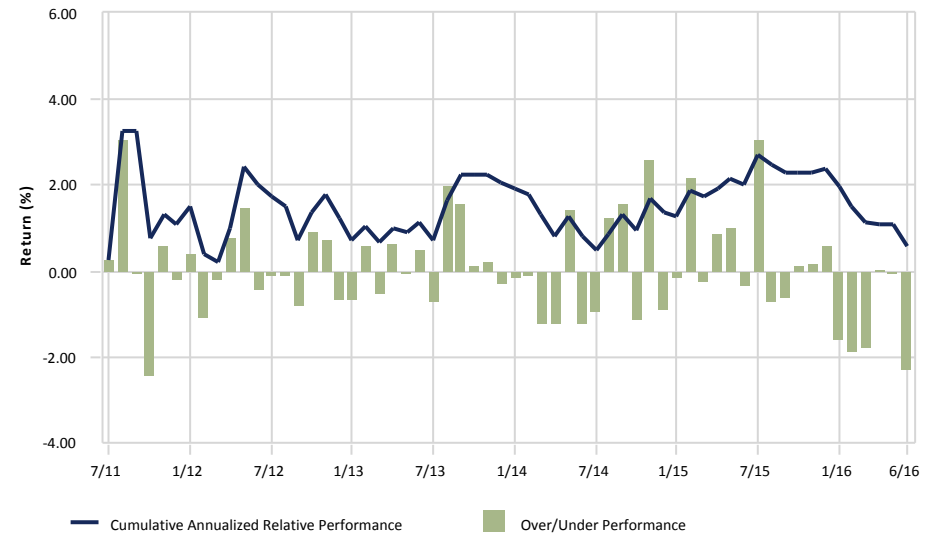


## Growth of \$1 - Since Inception (04/01/11)



gross of fees

## Relative Performance vs. Russell 1000 Value Index





# City of Jacksonville Police & Fire Pension Fund

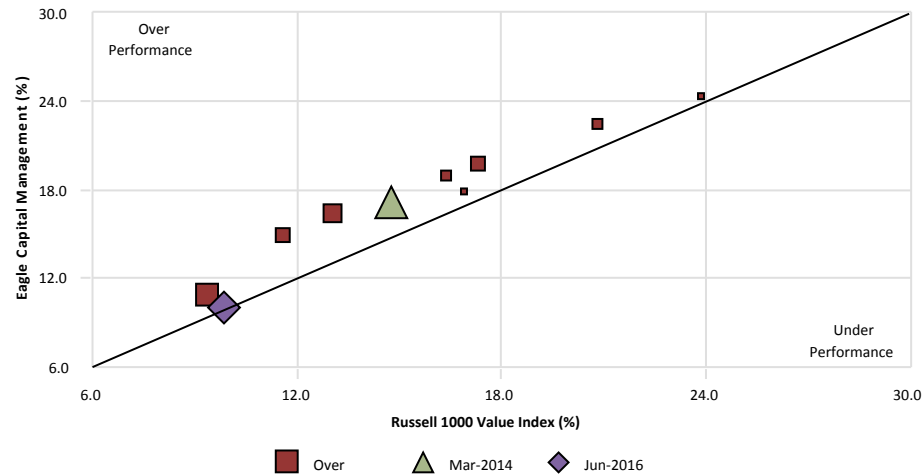
Eagle Capital Management

June 30, 2016

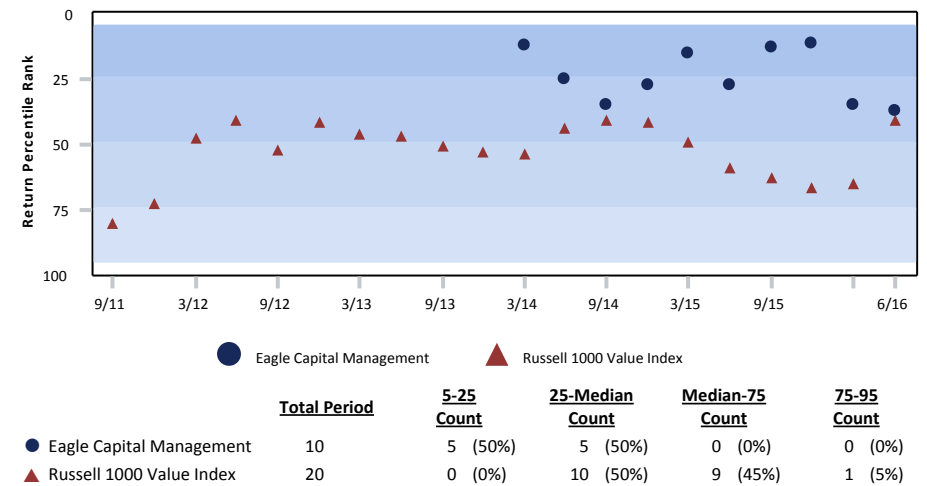
## 3 Year Portfolio Statistics

	Simple Alpha	Alpha	Beta	R-Squared	Tracking Error	Information Ratio	Sharpe Ratio	Consistency	Up Capture	Down Capture	Actual Correlation
Eagle Capital Management	0.24	0.18	1.02	0.87	4.48	0.08	0.85	44.44	105.40	107.13	0.93
Russell 1000 Value Index	0.00	0.00	1.00	1.00	0.00	-	0.89	0.00	100.00	100.00	1.00
90 Day US Treasury Bill	-9.80	0.07	0.00	0.00	11.18	-0.89	-	33.33	0.15	-0.30	-0.01

## 3 Year Rolling Under/Over Performance



## 3 Year Rolling Relative Ranking

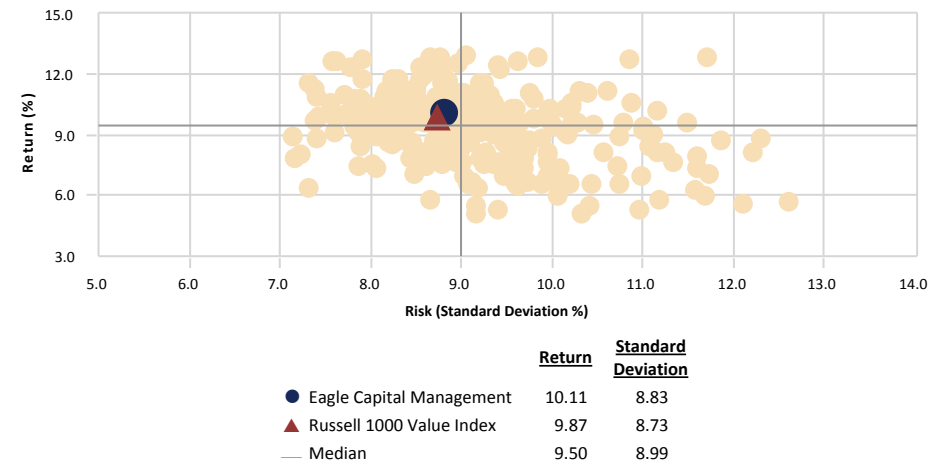


## 3 Year Style Analysis



gross of fees

## Risk vs. Return (07/01/13 - 06/30/16)



# City of Jacksonville Police & Fire Pension Fund

Eagle Capital Management vs. Russell 1000 Value Index

June 30, 2016

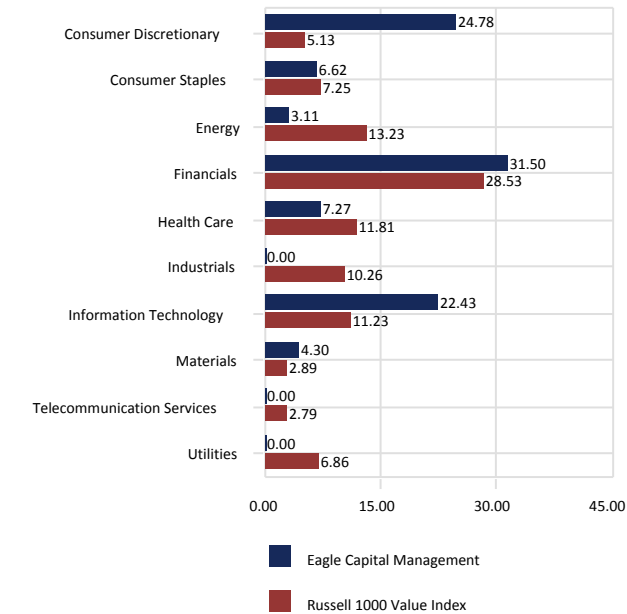
## Ten Best Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Amazon.com Inc	5.22	0.00	5.22	20.55
Fidelity National Information Services Inc	1.24	0.10	1.14	16.79
Noble Energy Inc	2.14	0.15	1.99	14.52
Anadarko Petroleum Corp	1.18	0.27	0.91	14.45
Mondelez International Inc	3.51	0.67	2.84	13.90
DISH Network Corp	3.87	0.03	3.84	13.27
Interval Leisure Group Inc	0.11	0.00	0.11	11.01
Unitedhealth Group Inc	4.83	0.00	4.83	10.04
Berkley (W R) Corp	1.80	0.06	1.74	6.87
Ecolab Inc.	4.55	0.00	4.55	6.66
% of Portfolio	28.45	1.28		

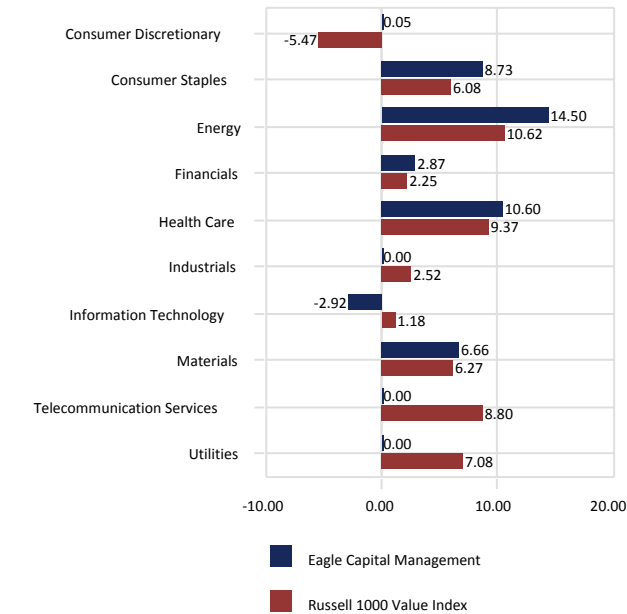
## Ten Worst Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Liberty Global Plc LiLAC Group	0.86	0.00	0.86	-14.23
Liberty Global Plc Global Group	4.85	0.00	4.85	-12.63
Alphabet Inc	1.97	0.00	1.97	-7.78
Alphabet Inc	4.07	0.00	4.07	-7.09
Microsoft Corp	6.26	0.00	6.26	-6.69
Marriott International Inc.	2.29	0.02	2.27	-6.20
Goldman Sachs Group Inc (The)	1.85	0.56	1.29	-4.97
Starwood Hotels & Resorts Worldwide Inc.	1.24	0.05	1.19	-3.67
Twenty-First Century Fox Inc	3.94	0.03	3.91	-3.37
Twenty-First Century Fox Inc	1.30	0.07	1.23	-2.98
% of Portfolio	28.63	0.73		

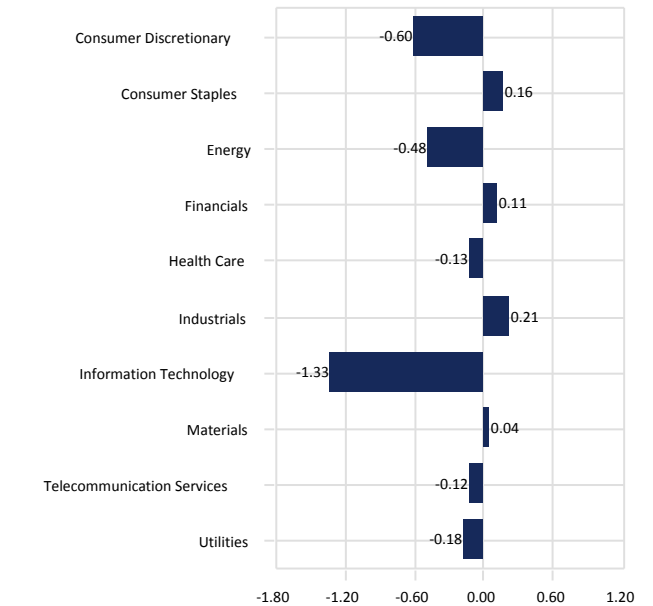
## Sector Allocation



## Sector Performance



## Total Sector Attribution



# City of Jacksonville Police & Fire Pension Fund

Eagle Capital Management vs. Russell 1000 Value Index

June 30, 2016

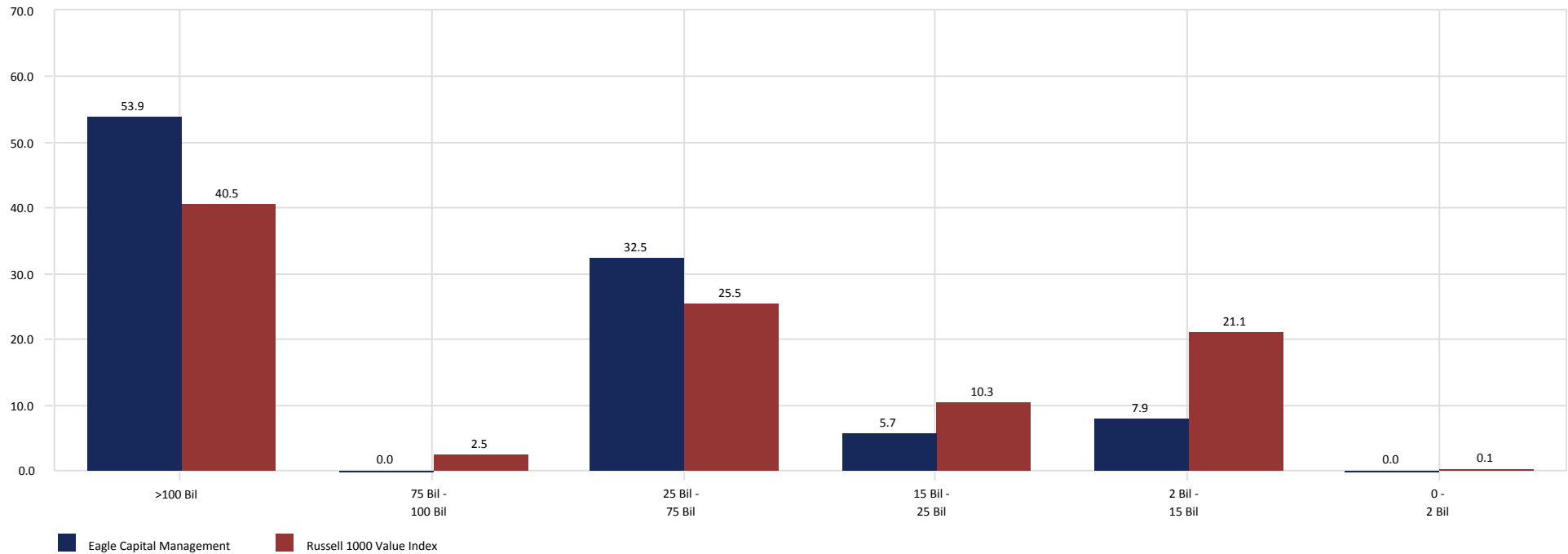
## Portfolio Characteristics

	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$000)	162,294,084	114,956,535
Median Mkt. Cap (\$000)	51,399,086	7,566,737
Price/Earnings ratio	19.31	17.08
Price/Book ratio	2.92	2.12
5 Yr. EPS Growth Rate (%)	6.33	3.05
Current Yield (%)	1.15	2.65
Beta (5 Years, Monthly)	0.91	1.00
Number of Stocks	29	692

## Top Ten Equity Holdings

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Berkshire Hathaway Inc	8.64	2.68	5.96	2.05
Oracle Corp	8.30	1.07	7.23	0.42
Aon PLC	6.51	0.00	6.51	4.91
Microsoft Corp	6.26	0.00	6.26	-6.69
Amazon.com Inc	5.22	0.00	5.22	20.55
Liberty Global Plc Global Group	4.85	0.00	4.85	-12.63
Unitedhealth Group Inc	4.83	0.00	4.83	10.04
JPMorgan Chase & Co	4.78	2.22	2.56	5.71
Ecolab Inc.	4.55	0.00	4.55	6.66
Citigroup Inc	4.50	1.22	3.28	1.64
% of Portfolio	58.44	7.19		

## Distribution of Market Capitalization (%)

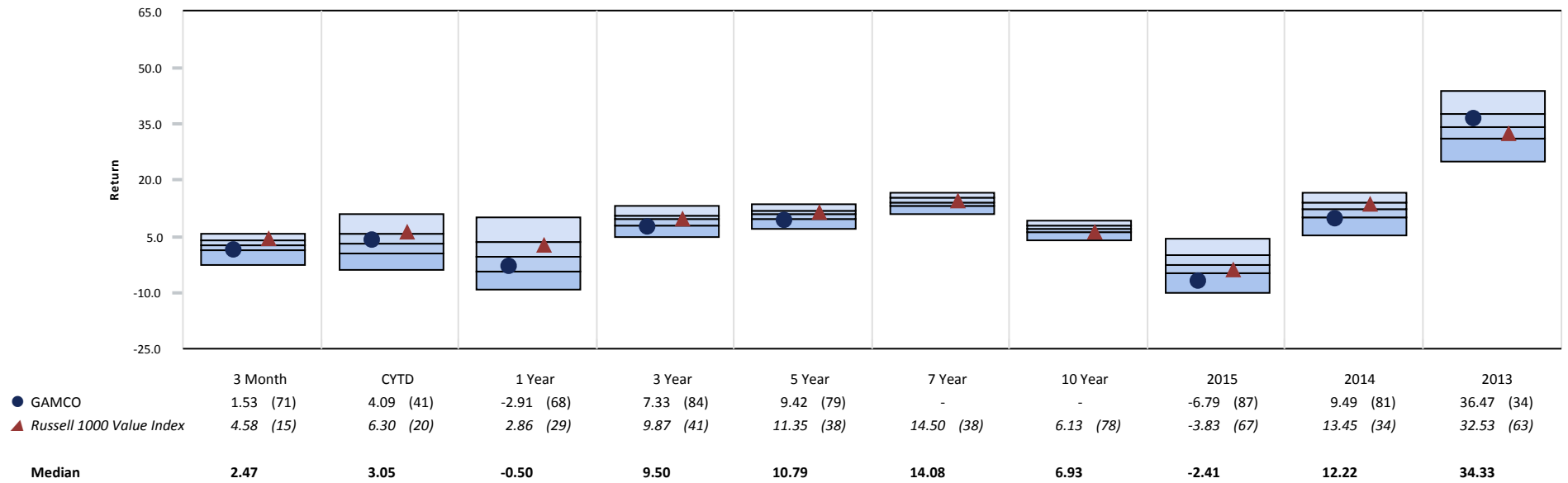


# City of Jacksonville Police & Fire Pension Fund

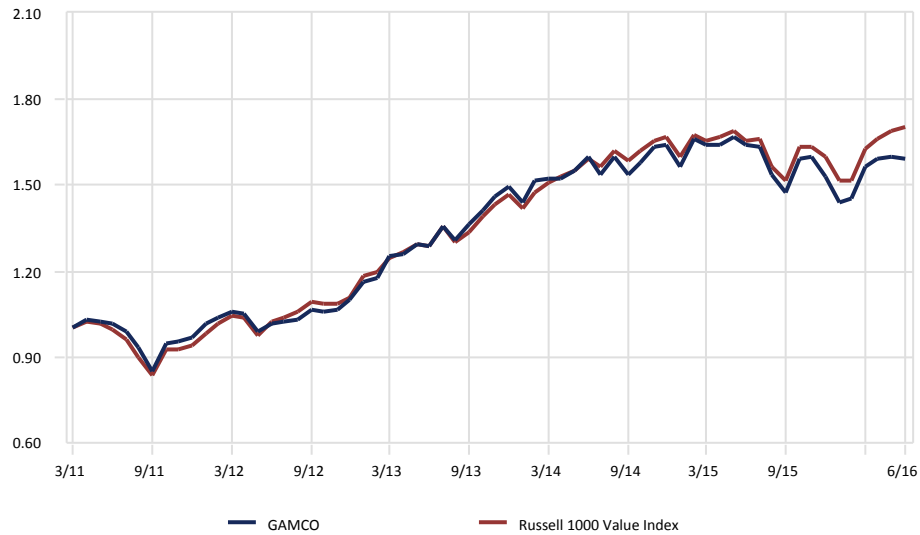
GAMCO

June 30, 2016

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

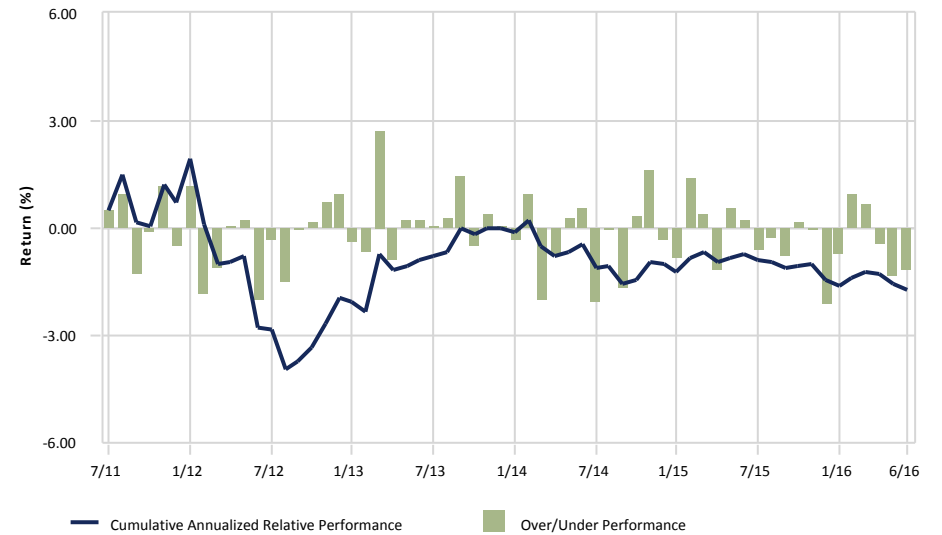


## Growth of \$1 - Since Inception (04/01/11)



gross of fees

## Relative Performance vs. Russell 1000 Value Index



# City of Jacksonville Police & Fire Pension Fund

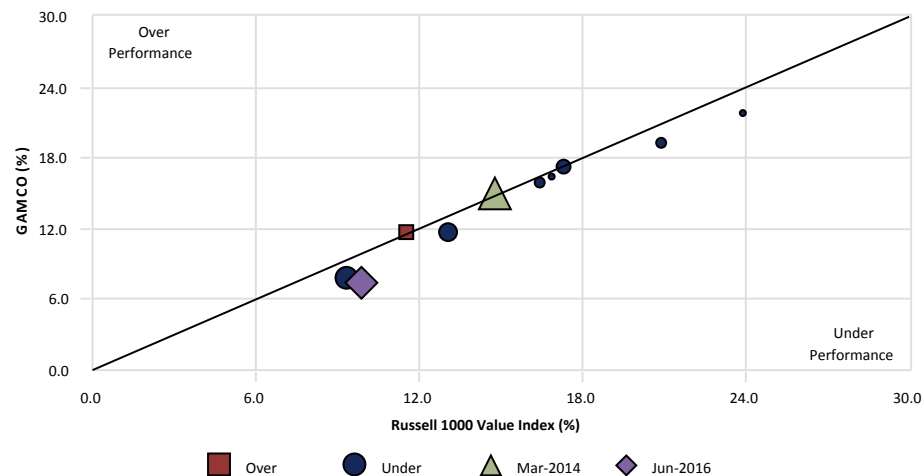
GAMCO

June 30, 2016

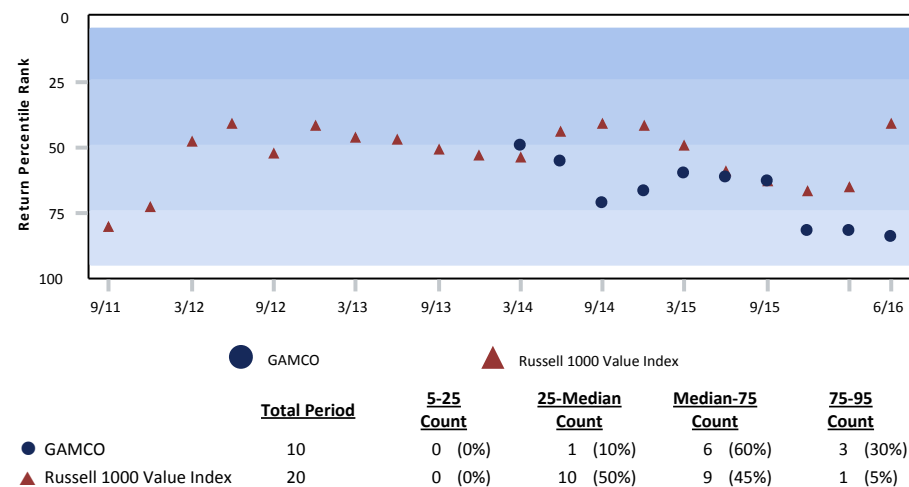
## 3 Year Portfolio Statistics

	Simple Alpha	Alpha	Beta	R-Squared	Tracking Error	Information Ratio	Sharpe Ratio	Consistency	Up Capture	Down Capture	Actual Correlation
GAMCO	-2.53	-3.25	1.11	0.94	3.31	-0.65	0.61	50.00	100.41	119.33	0.97
Russell 1000 Value Index	0.00	0.00	1.00	1.00	0.00	-	0.89	0.00	100.00	100.00	1.00
90 Day US Treasury Bill	-9.80	0.07	0.00	0.00	11.18	-0.89	-	33.33	0.15	-0.30	-0.01

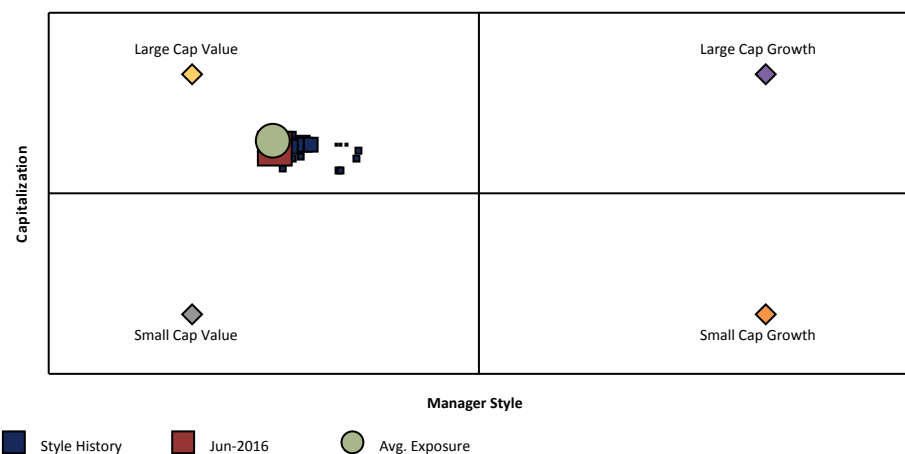
## 3 Year Rolling Under/Over Performance



## 3 Year Rolling Relative Ranking

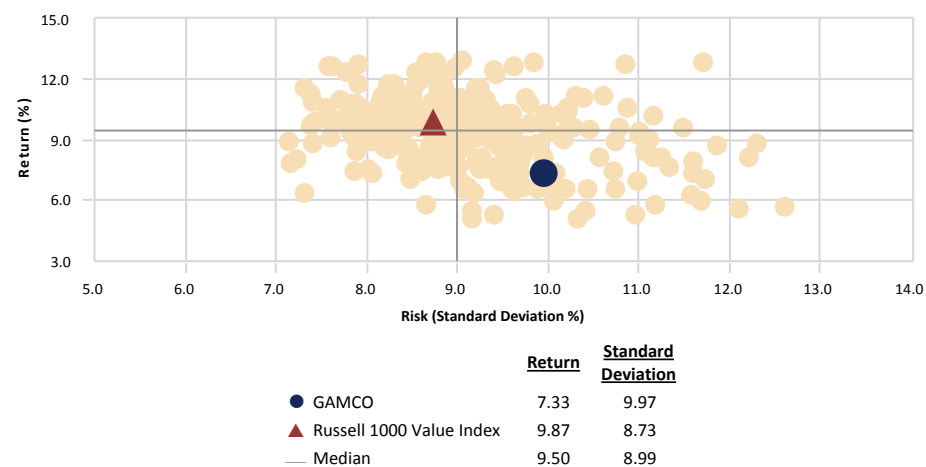


## 3 Year Style Analysis



gross of fees

## Risk vs. Return (07/01/13 - 06/30/16)



# City of Jacksonville Police & Fire Pension Fund

## GAMCO vs. Russell 1000 Value Index

June 30, 2016

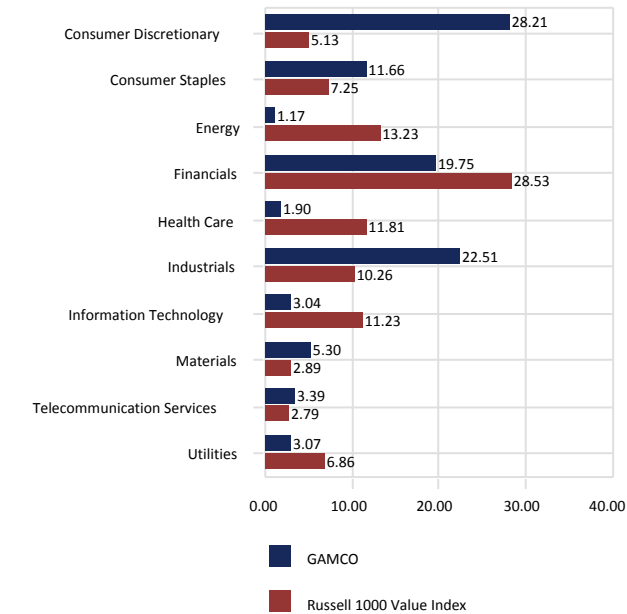
### Ten Best Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Demandware Inc	0.48	0.00	0.48	91.56
LinkedIn Corp	1.23	0.00	1.23	65.50
DreamWorks Animation Inc	1.06	0.00	1.06	63.81
Newmont Mining Corp	1.08	0.20	0.88	47.28
CONSOL Energy Inc.	0.26	0.04	0.22	42.52
Sprint Corp	0.15	0.03	0.12	30.17
Energizer Holdings Inc	0.67	0.02	0.65	27.79
Cypress Semiconductor Corp	0.17	0.03	0.14	23.27
CIRCOR International Inc	0.09	0.00	0.09	22.93
Astec Industries Inc.	1.41	0.00	1.41	20.57
% of Portfolio	6.60	0.32		

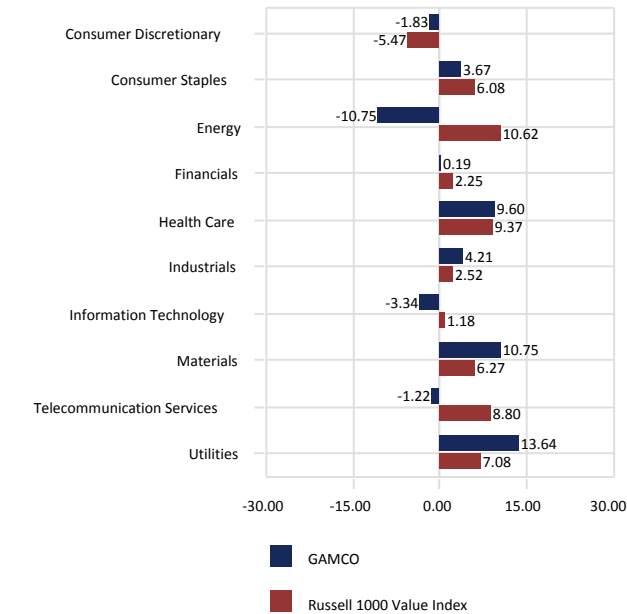
### Ten Worst Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Strattec Security Corp	0.09	0.00	0.09	-28.76
Weatherford International plc	0.75	0.05	0.70	-28.66
Dana Holding Corp	0.75	0.00	0.75	-24.69
Internap Corp	0.15	0.00	0.15	-24.54
J.C. Penney Company Inc.	0.24	0.03	0.21	-19.71
Ampco-Pittsburgh Corp	0.04	0.00	0.04	-18.27
Federal-Mogul Holdings Corp	1.21	0.00	1.21	-15.89
Brink's Co (The)	1.11	0.00	1.11	-14.89
Churchill Downs Inc	0.16	0.00	0.16	-14.55
Legg Mason Inc	1.10	0.03	1.07	-14.40
% of Portfolio	5.60	0.11		

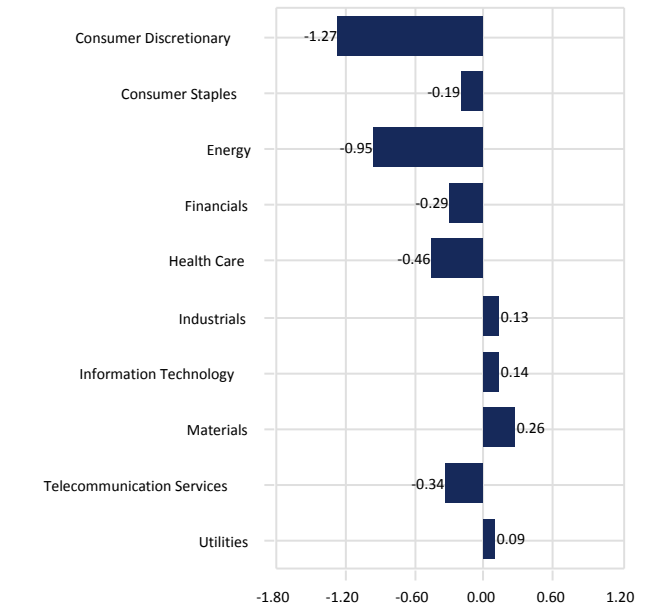
### Sector Allocation



### Sector Performance



### Total Sector Attribution



# City of Jacksonville Police & Fire Pension Fund

GAMCO vs. Russell 1000 Value Index

June 30, 2016

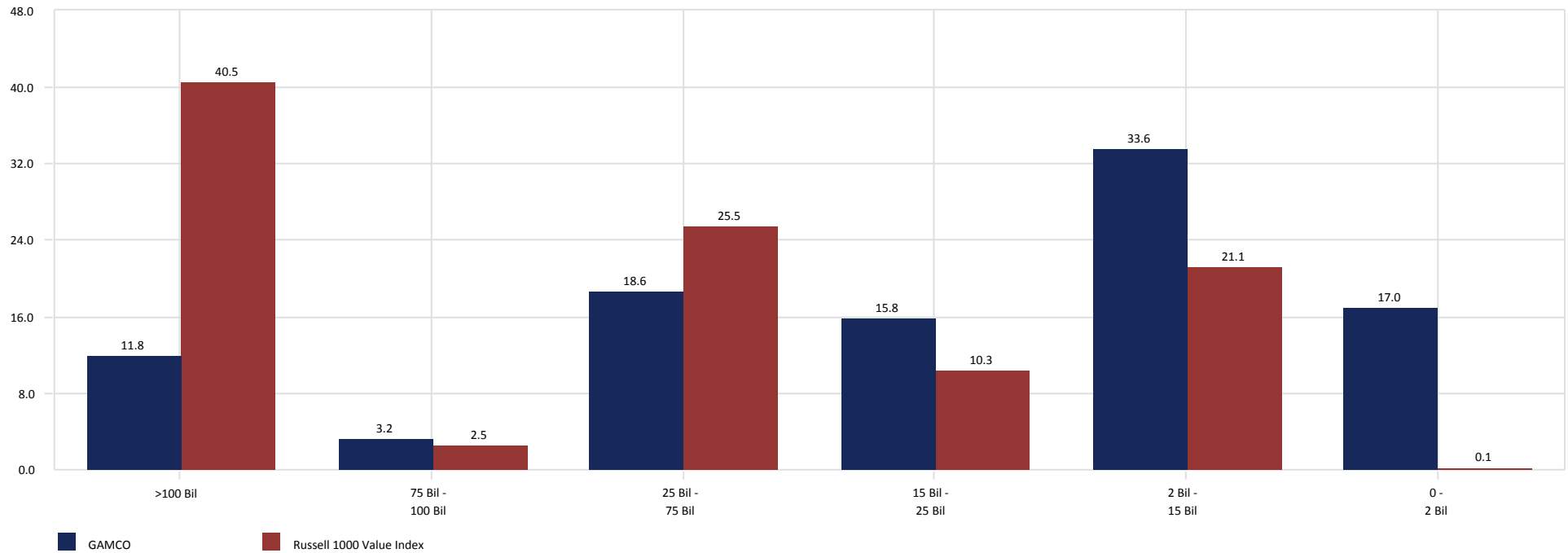
## Portfolio Characteristics

	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$000)	37,479,508	114,956,535
Median Mkt. Cap (\$000)	4,971,080	7,566,737
Price/Earnings ratio	17.99	17.08
Price/Book ratio	2.55	2.12
5 Yr. EPS Growth Rate (%)	5.56	3.05
Current Yield (%)	1.79	2.65
Beta (5 Years, Monthly)	1.04	1.00
Number of Stocks	115	692

## Top Ten Equity Holdings

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Genuine Parts Co	3.28	0.01	3.27	2.60
CVS Health Corp	3.25	0.06	3.19	-7.32
Honeywell International Inc	3.20	0.00	3.20	4.35
Bank of New York Mellon Corp (The)	2.77	0.40	2.37	5.93
Home Depot Inc. (The)	2.69	0.00	2.69	-3.81
Wells Fargo & Co	2.53	2.12	0.41	-1.37
Ryman Hospitality Properties Inc	2.30	0.00	2.30	-0.08
National Fuel Gas Co	2.03	0.04	1.99	14.49
Fortune Brands Home & Security Inc	1.97	0.00	1.97	3.73
PNC Financial Services Group Inc.	1.91	0.40	1.51	-3.18
% of Portfolio	25.93	3.03		

## Distribution of Market Capitalization (%)

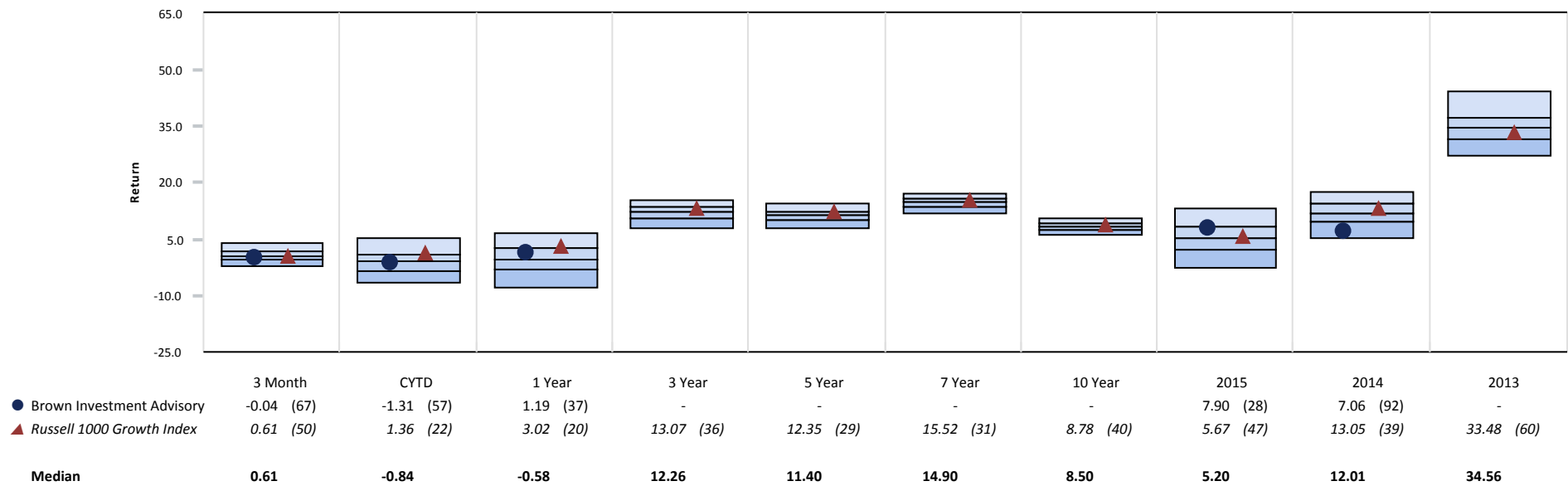


# City of Jacksonville Police & Fire Pension Fund

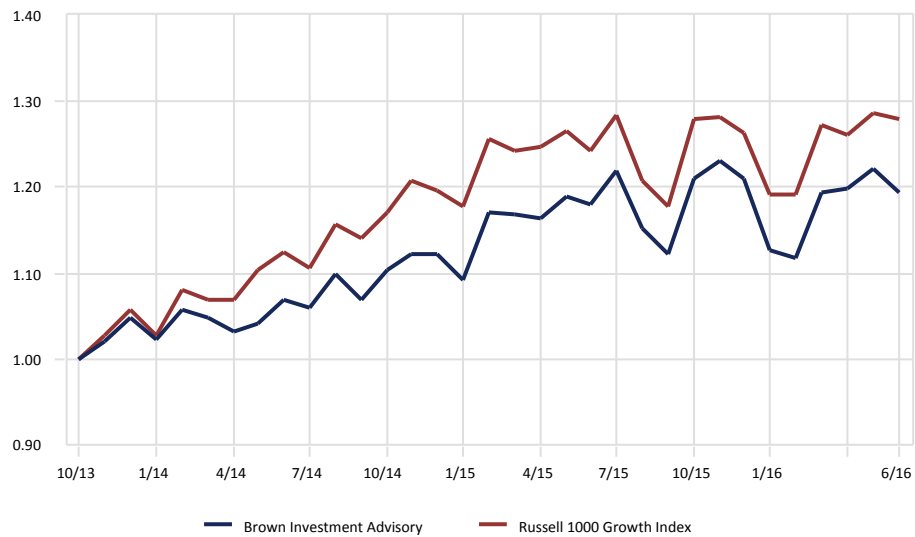
Brown Investment Advisory

June 30, 2016

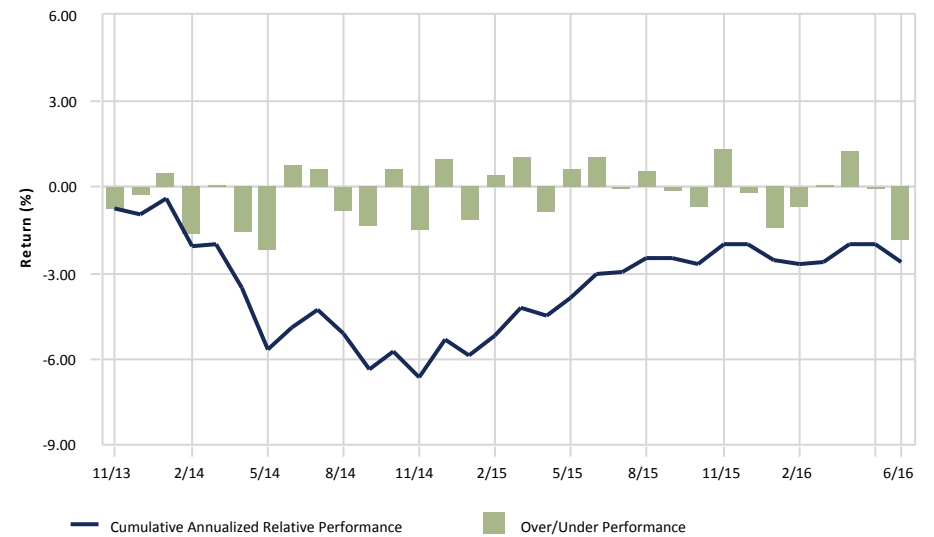
## Peer Group Analysis - IM U.S. Large Cap Growth Equity (SA+CF)



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



## Relative Performance vs. Russell 1000 Growth Index



gross of fees



# City of Jacksonville Police & Fire Pension Fund

Brown Investment Advisory vs. Russell 1000 Growth Index

June 30, 2016

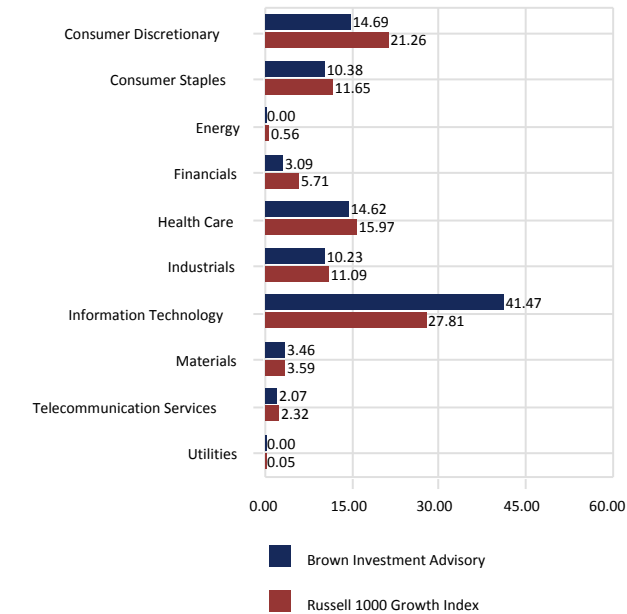
## Ten Best Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Amazon.com Inc	5.03	2.75	2.28	20.55
Bristol-Myers Squibb Co	3.90	1.21	2.69	15.74
Express Scripts Holding Co	3.20	0.42	2.78	10.35
Intuitive Surgical Inc	3.78	0.25	3.53	10.04
SBA Communications Corp	2.59	0.08	2.51	7.76
salesforce.com Inc	3.60	0.50	3.10	7.56
Mead Johnson Nutrition Co	3.38	0.06	3.32	7.32
Ecolab Inc.	3.66	0.31	3.35	6.66
Danaher Corp	4.28	0.16	4.12	6.65
NetSuite Inc	2.02	0.03	1.99	6.29
% of Portfolio	35.44	5.77		

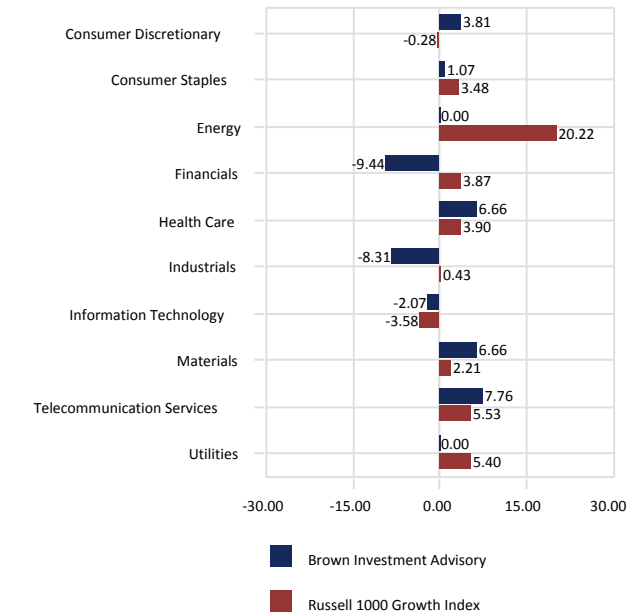
## Ten Worst Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Alexion Pharmaceuticals Inc	2.39	0.25	2.14	-16.13
Under Armour Inc	1.60	0.07	1.53	-12.13
Wabtec Corp	2.23	0.06	2.17	-11.34
Schwab (Charles) Corp	1.05	0.23	0.82	-9.44
Fastenal Co	2.19	0.13	2.06	-8.81
Cognizant Technology Solutions Corp	2.39	0.34	2.05	-8.71
National Instruments Corp	0.73	0.02	0.71	-8.32
Alphabet Inc	2.11	2.04	0.07	-7.78
Under Armour Inc	1.13	0.07	1.06	-7.48
Alphabet Inc	2.91	2.03	0.88	-7.09
% of Portfolio	18.73	5.24		

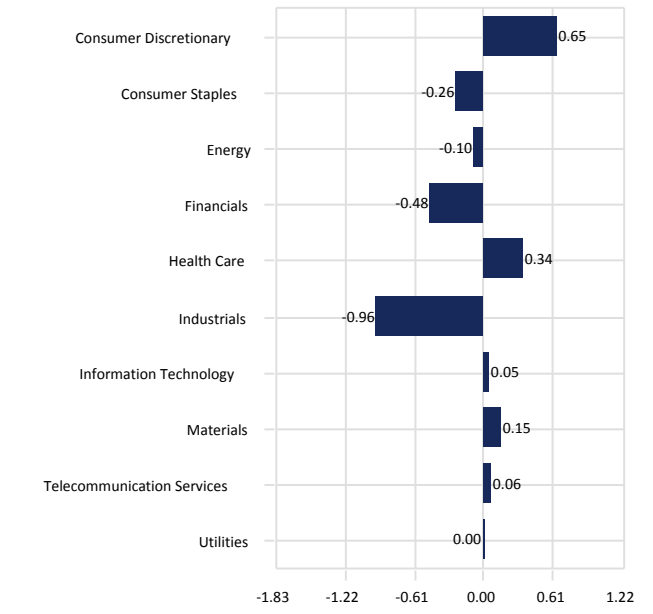
## Sector Allocation



## Sector Performance



## Total Sector Attribution



# City of Jacksonville Police & Fire Pension Fund

Brown Investment Advisory vs. Russell 1000 Growth Index

June 30, 2016

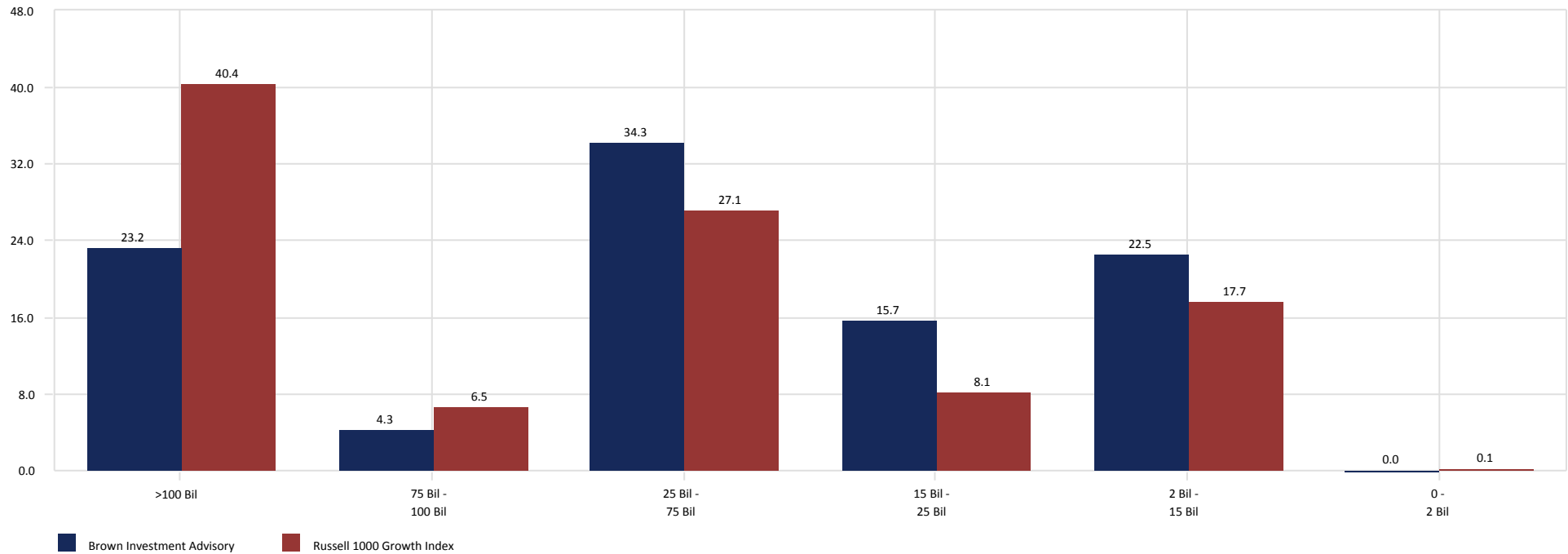
## Portfolio Characteristics

	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$000)	86,742,201	129,409,503
Median Mkt. Cap (\$000)	26,156,575	8,880,235
Price/Earnings ratio	33.04	23.32
Price/Book ratio	5.09	5.49
5 Yr. EPS Growth Rate (%)	8.93	9.66
Current Yield (%)	0.54	1.58
Beta	-	1.00
Number of Stocks	35	600

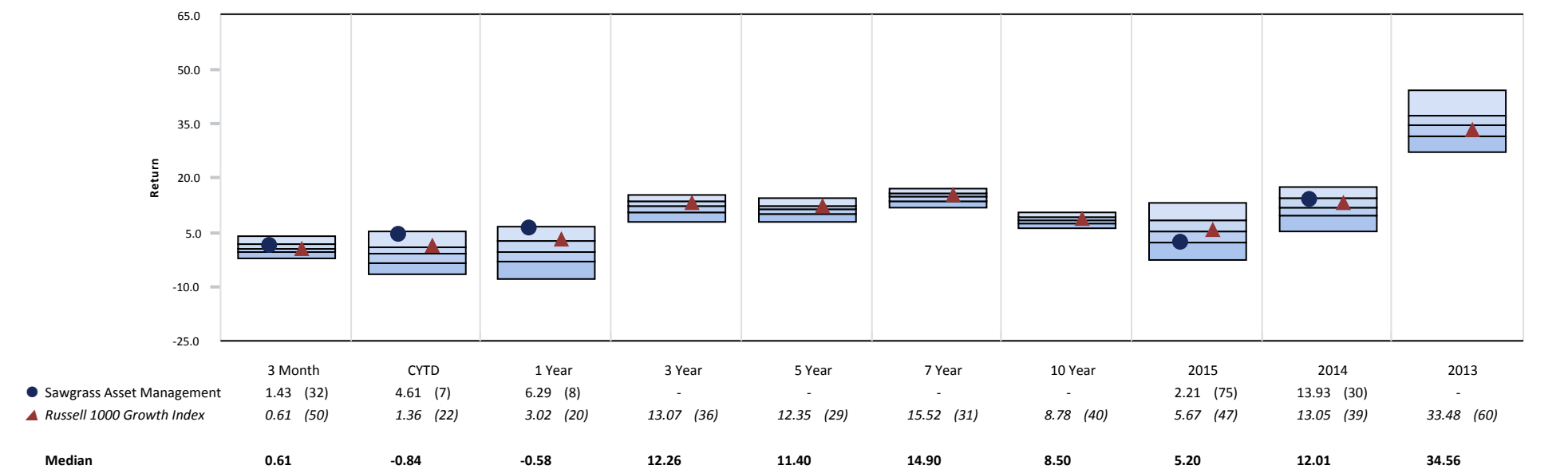
## Top Ten Equity Holdings

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Amazon.com Inc	5.03	2.75	2.28	20.55
Visa Inc	4.67	1.40	3.27	-2.84
Facebook Inc	4.60	2.53	2.07	0.16
Starbucks Corp	4.30	0.80	3.50	-3.98
Danaher Corp	4.28	0.16	4.12	6.65
Costco Wholesale Corp	4.01	0.68	3.33	-0.05
Bristol-Myers Squibb Co	3.90	1.21	2.69	15.74
Intuitive Surgical Inc	3.78	0.25	3.53	10.04
Estee Lauder Companies Inc. (The)	3.76	0.19	3.57	-3.17
Ecolab Inc.	3.66	0.31	3.35	6.66
% of Portfolio	41.99	10.28		

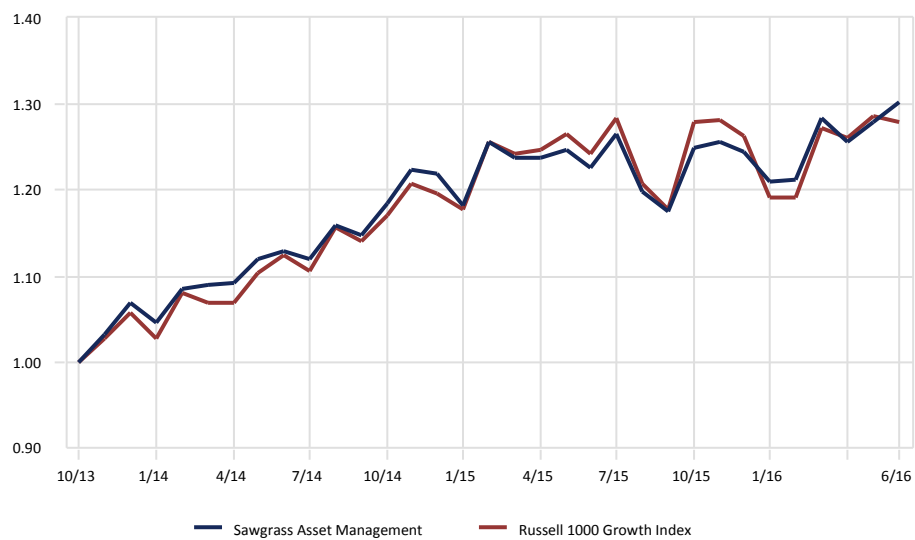
## Distribution of Market Capitalization (%)



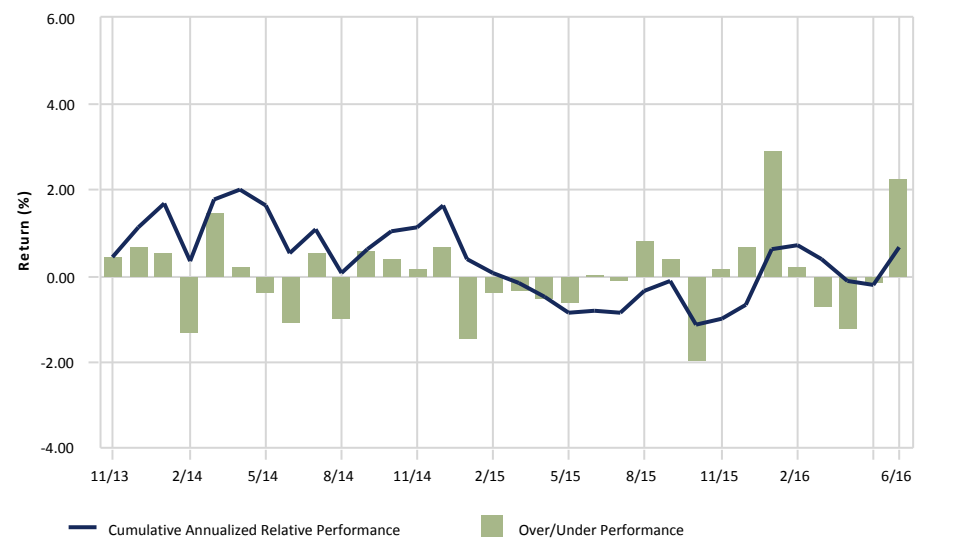
Peer Group Analysis - IM U.S. Large Cap Growth Equity (SA+CF)



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



Relative Performance vs. Russell 1000 Growth Index



gross of fees

# City of Jacksonville Police & Fire Pension Fund

## Sawgrass Asset Management vs. Russell 1000 Growth Index

June 30, 2016

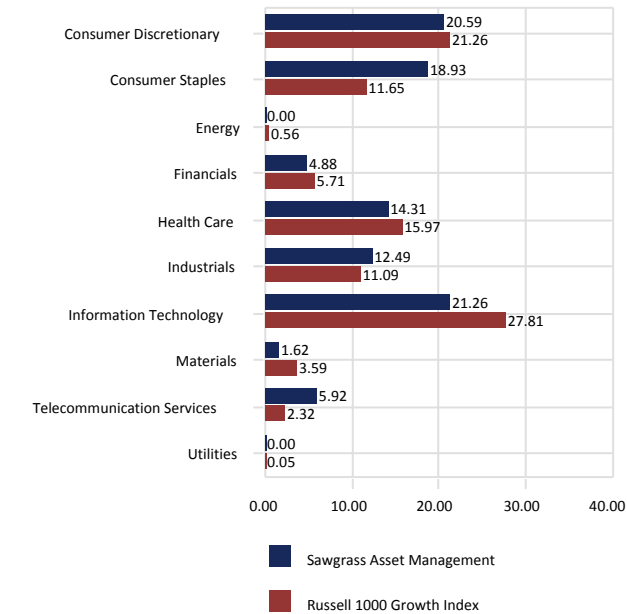
### Ten Best Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
McKesson Corp	2.20	0.41	1.79	18.87
Dollar Tree Inc	1.63	0.21	1.42	14.29
General Mills Inc.	2.74	0.42	2.32	13.40
Marsh & McLennan Companies Inc.	2.18	0.35	1.83	13.19
Johnson & Johnson	3.53	0.57	2.96	12.90
AT&T Inc	0.93	0.00	0.93	11.68
Laboratory Corporation of America Holdings	3.68	0.06	3.62	11.22
Express Scripts Holding Co	0.81	0.42	0.39	10.35
Unitedhealth Group Inc	2.81	1.31	1.50	10.04
AbbVie Inc	1.33	0.99	0.34	9.43
% of Portfolio	21.84	4.74		

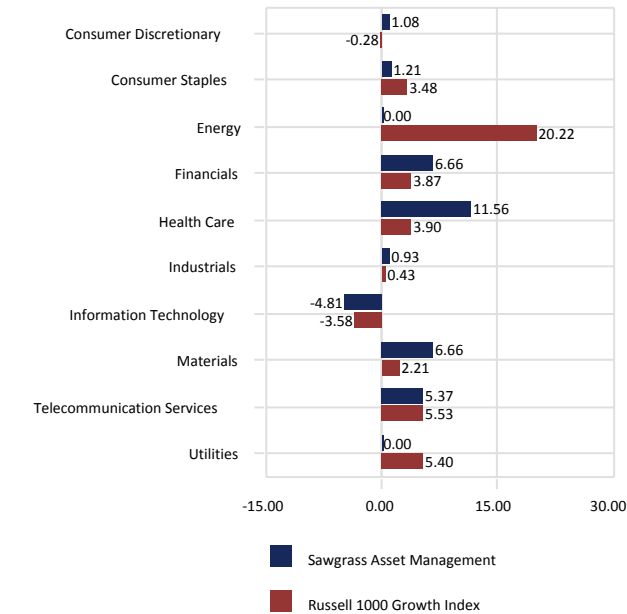
### Ten Worst Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Stericycle Inc	1.73	0.08	1.65	-17.49
Apple Inc	4.88	4.74	0.14	-11.75
Alphabet Inc	3.26	2.04	1.22	-7.78
CVS Health Corp	3.30	0.96	2.34	-7.32
Microsoft Corp	4.25	3.83	0.42	-6.69
MasterCard Inc	1.47	0.84	0.63	-6.63
FedEx Corp.	0.69	0.37	0.32	-6.49
Starbucks Corp	1.32	0.80	0.52	-3.98
Home Depot Inc. (The)	2.31	1.57	0.74	-3.81
McDonald's Corp	3.18	1.04	2.14	-3.55
% of Portfolio	26.39	16.27		

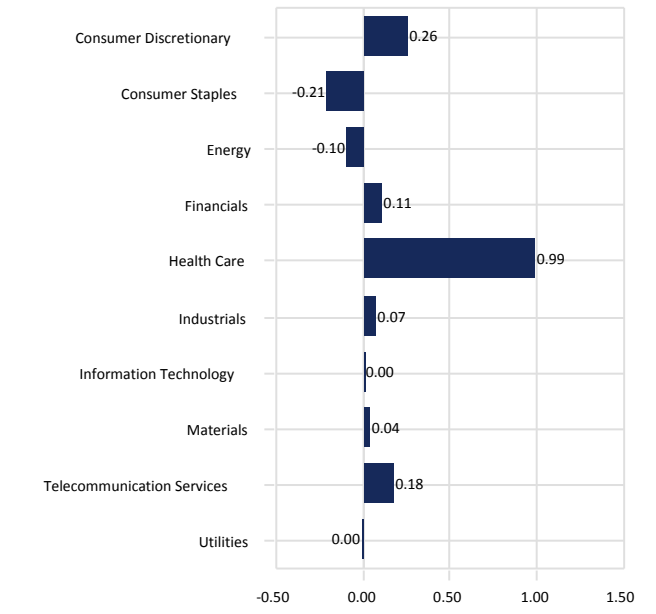
### Sector Allocation



### Sector Performance



### Total Sector Attribution



# City of Jacksonville Police & Fire Pension Fund

## Sawgrass Asset Management vs. Russell 1000 Growth Index

June 30, 2016

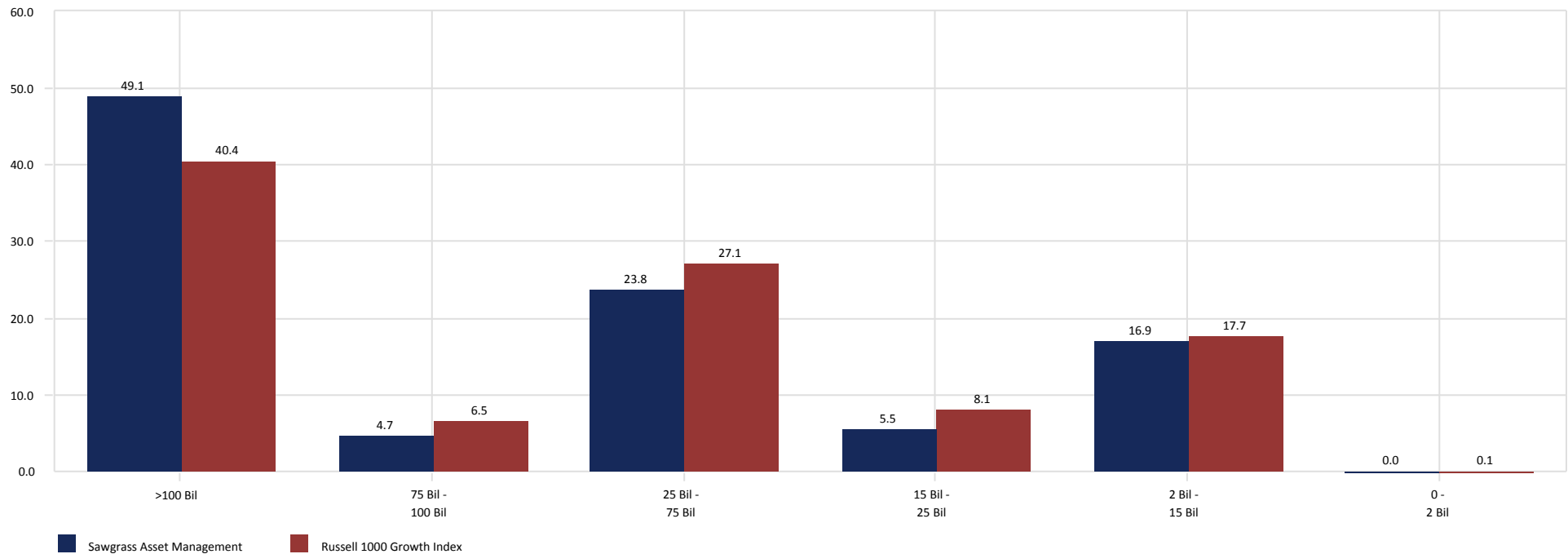
### Portfolio Characteristics

	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$000)	144,046,851	129,409,503
Median Mkt. Cap (\$000)	69,176,040	8,880,235
Price/Earnings ratio	21.60	23.32
Price/Book ratio	4.77	5.49
5 Yr. EPS Growth Rate (%)	10.30	9.66
Current Yield (%)	1.67	1.58
Beta	-	1.00
Number of Stocks	42	600

### Top Ten Equity Holdings

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Verizon Communications Inc	5.01	1.13	3.88	4.34
Apple Inc	4.88	4.74	0.14	-11.75
Coca-Cola Co (The)	4.26	1.31	2.95	-1.53
Microsoft Corp	4.25	3.83	0.42	-6.69
Laboratory Corporation of America Holdings	3.68	0.06	3.62	11.22
Johnson & Johnson	3.53	0.57	2.96	12.90
CVS Health Corp	3.30	0.96	2.34	-7.32
Alphabet Inc	3.26	2.04	1.22	-7.78
EMC Corp	3.19	0.06	3.13	2.38
McDonald's Corp	3.18	1.04	2.14	-3.55
% of Portfolio	38.54	15.74		

### Distribution of Market Capitalization (%)

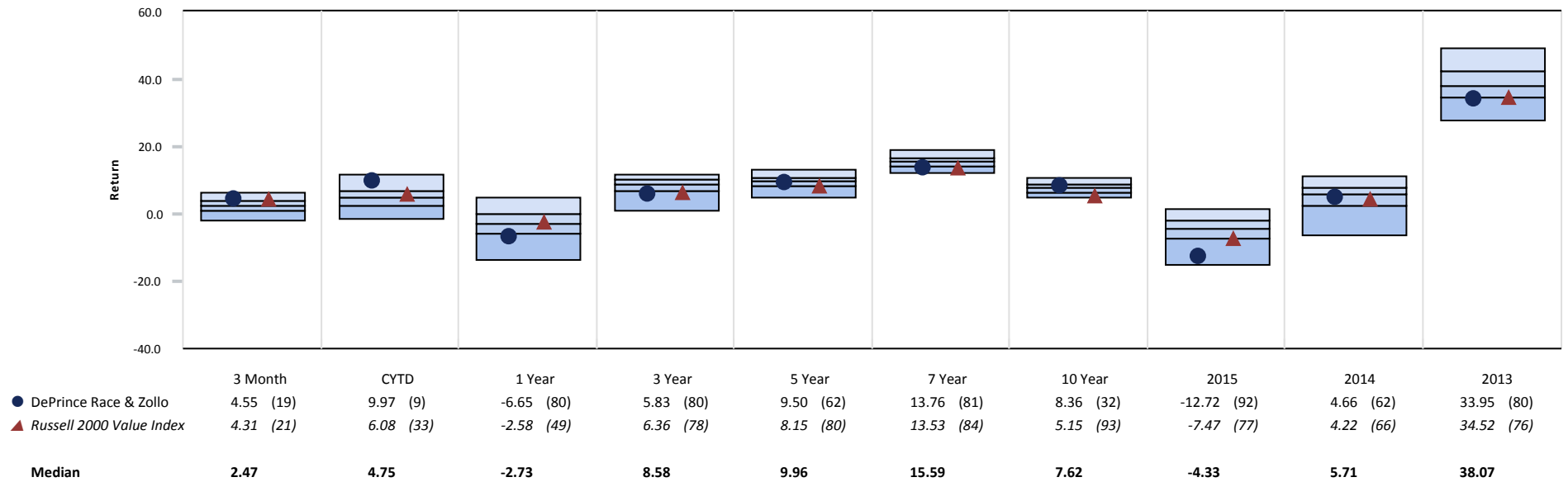


# City of Jacksonville Police & Fire Pension Fund

DePrince Race & Zollo

June 30, 2016

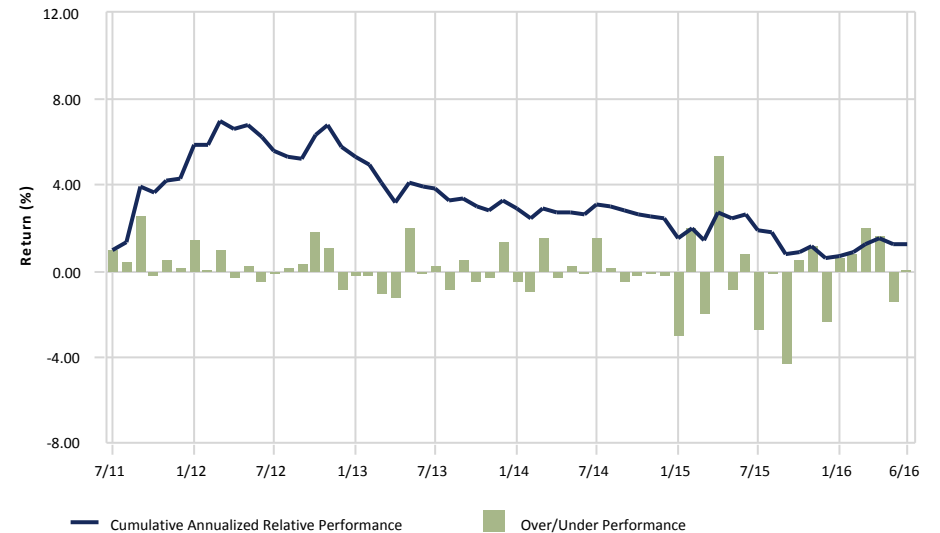
## Peer Group Analysis - IM U.S. Small Cap Value Equity (SA+CF)



## 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

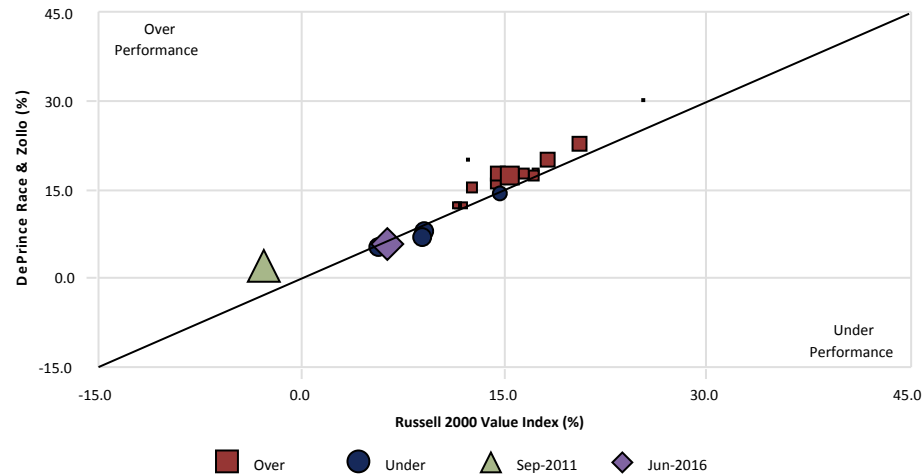
DePrince Race & Zollo

June 30, 2016

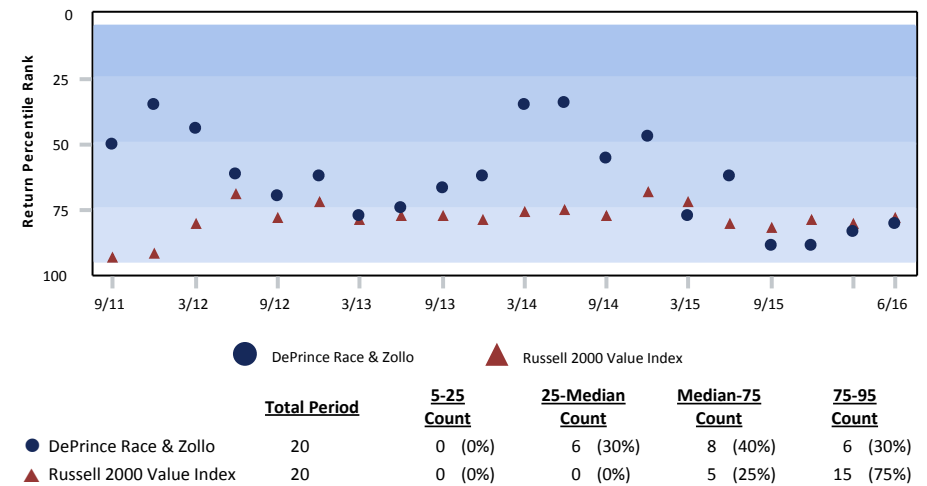
## 3 Year Portfolio Statistics

	Simple Alpha	Alpha	Beta	R-Squared	Tracking Error	Information Ratio	Sharpe Ratio	Consistency	Up Capture	Down Capture	Actual Correlation
DePrince Race & Zollo	-0.53	-0.86	1.10	0.89	5.68	-0.02	0.42	47.22	108.74	112.96	0.94
Russell 2000 Value 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	-6.29	0.07	0.00	0.00	14.29	-0.50	-	36.11	0.16	-0.15	-0.01

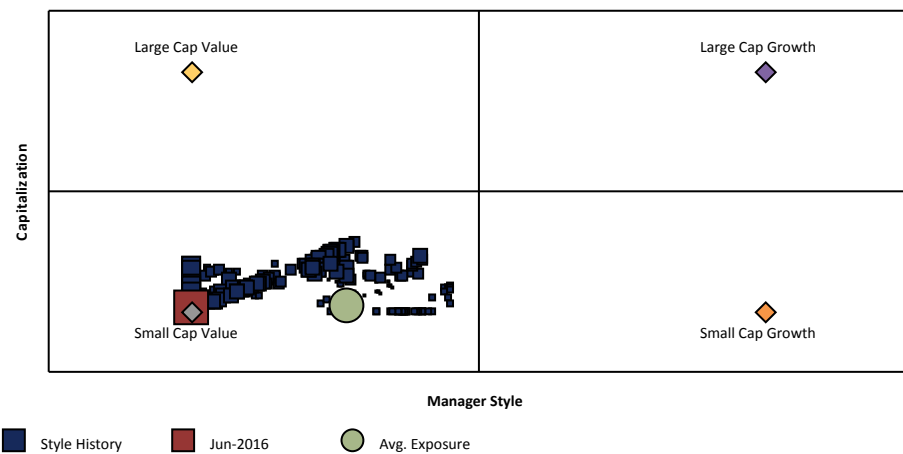
## 3 Year Rolling Under/Over Performance



## 3 Year Rolling Relative Ranking

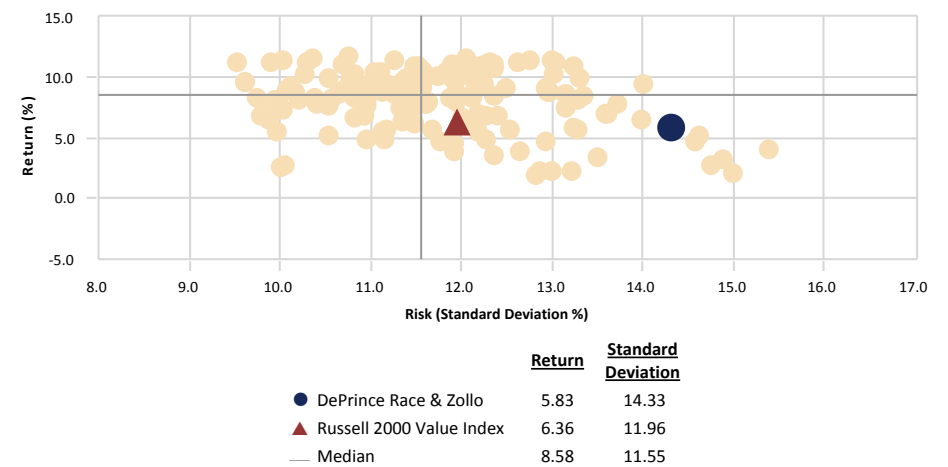


## 3 Year Style Analysis



gross of fees

## Risk vs. Return (07/01/13 - 06/30/16)



# City of Jacksonville Police & Fire Pension Fund

DePrince Race & Zollo vs. Russell 2000 Value Index

June 30, 2016

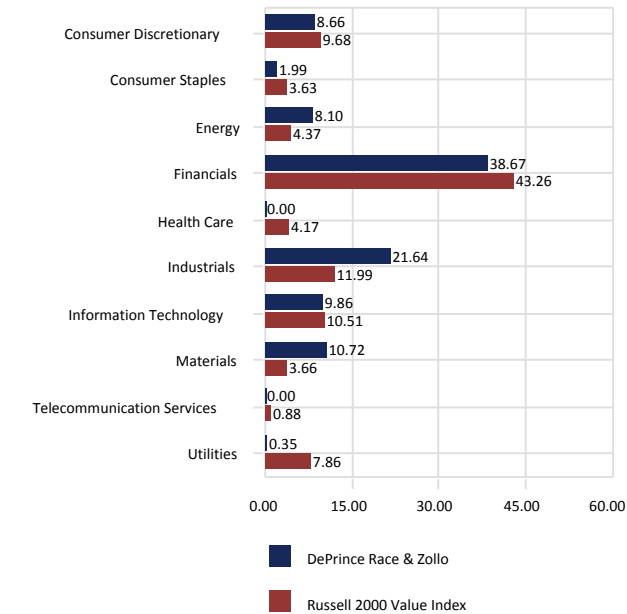
## Ten Best Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Green Plains Inc	1.76	0.09	1.67	24.35
McGrath RentCorp	1.92	0.09	1.83	23.28
Cypress Semiconductor Corp	1.23	0.00	1.23	23.27
Brandywine Realty Trust	1.54	0.00	1.54	19.74
HNI Corp	0.85	0.00	0.85	19.46
Oshkosh Corp	2.20	0.00	2.20	17.22
IBERIABANK Corp	2.64	0.30	2.34	17.19
PolyOne Corp	1.65	0.00	1.65	16.87
Outfront Media Inc	1.64	0.00	1.64	16.23
Greif Inc.	1.65	0.12	1.53	15.02
% of Portfolio	17.08	0.60		

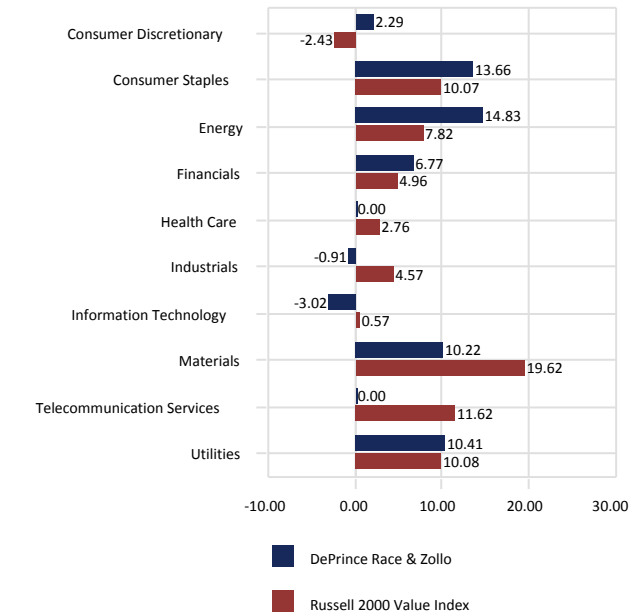
## Ten Worst Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Greenhill & Co Inc	0.89	0.01	0.88	-25.87
Primoris Services Corp	0.94	0.00	0.94	-21.86
Chico's FAS Inc.	1.68	0.02	1.66	-18.72
Interface Inc	1.54	0.01	1.53	-17.49
Oxford Industries Inc.	1.41	0.00	1.41	-15.41
KBR Inc	2.55	0.00	2.55	-13.99
Diebold Inc	3.37	0.14	3.23	-13.07
Delek US Holdings Inc	1.79	0.10	1.69	-12.36
Regal Beloit Corp	1.60	0.00	1.60	-12.35
Haynes International Inc	0.79	0.05	0.74	-11.44
% of Portfolio	16.56	0.33		

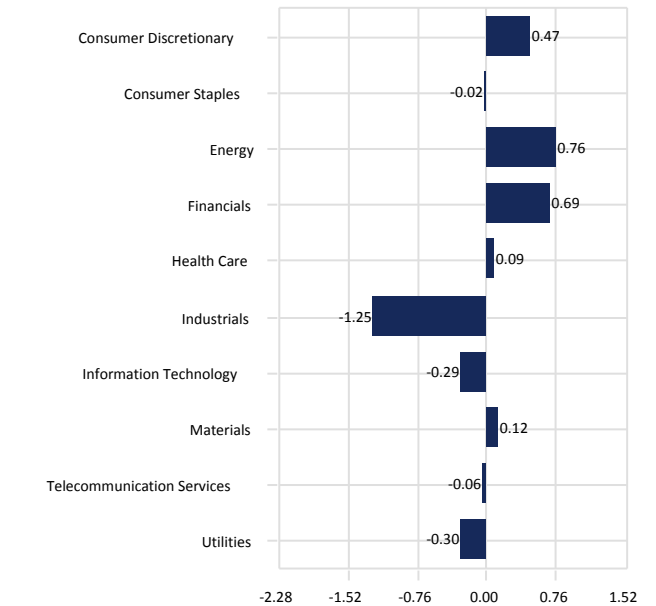
## Sector Allocation



## Sector Performance



## Total Sector Attribution





# City of Jacksonville Police & Fire Pension Fund

DePrince Race & Zollo vs. Russell 2000 Value Index

June 30, 2016

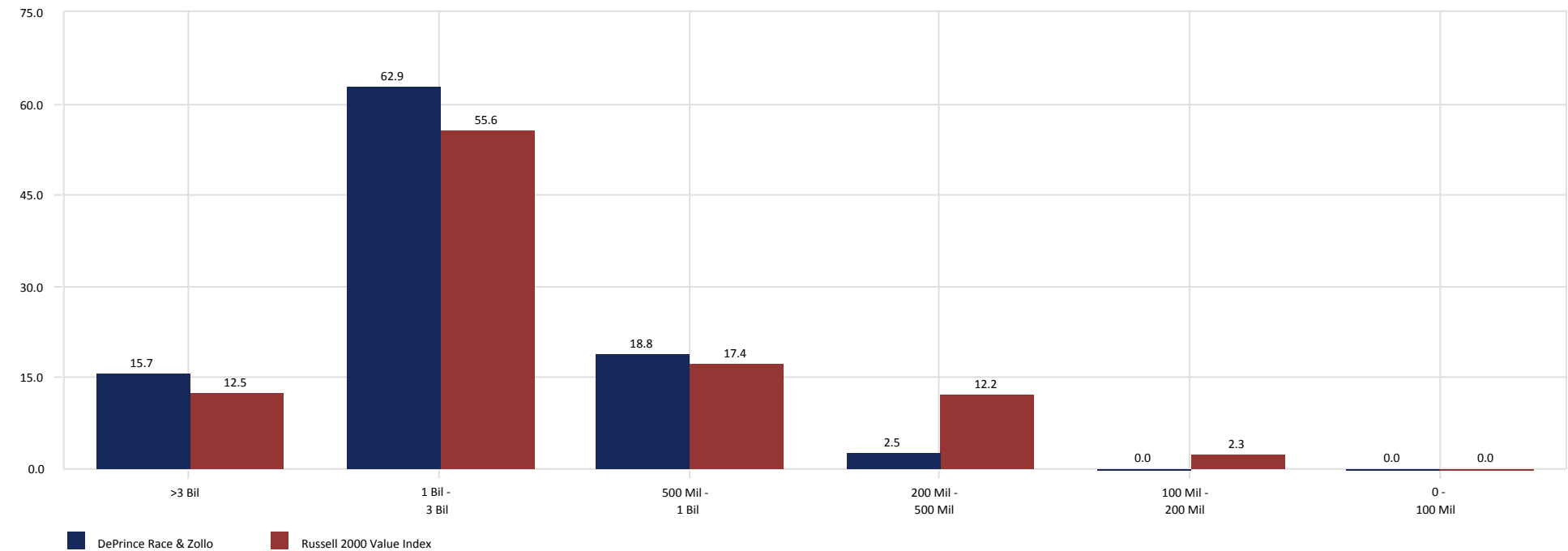
## Portfolio Characteristics

	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$000)	2,001,043	1,611,599
Median Mkt. Cap (\$000)	1,861,932	577,467
Price/Earnings ratio	19.04	16.18
Price/Book ratio	1.89	1.54
5 Yr. EPS Growth Rate (%)	4.29	9.23
Current Yield (%)	3.05	2.27
Beta (5 Years, Monthly)	1.02	1.00
Number of Stocks	64	1,361

## Top Ten Equity Holdings

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Diebold Inc	3.37	0.14	3.23	-13.07
Granite Construction Inc.	3.01	0.05	2.96	-4.41
Jabil Circuit Inc	2.73	0.00	2.73	-3.70
Tanger Factory Outlet Centers Inc.	2.64	0.00	2.64	11.41
IBERIABANK Corp	2.64	0.30	2.34	17.19
KBR Inc	2.55	0.00	2.55	-13.99
F.N.B. Corp	2.55	0.33	2.22	-2.75
Parkway Properties Inc.	2.49	0.17	2.32	8.00
Old National Bancorp	2.24	0.21	2.03	3.81
Nabors Industries Ltd	2.22	0.00	2.22	9.85
% of Portfolio	26.44	1.20		

## Distribution of Market Capitalization (%)

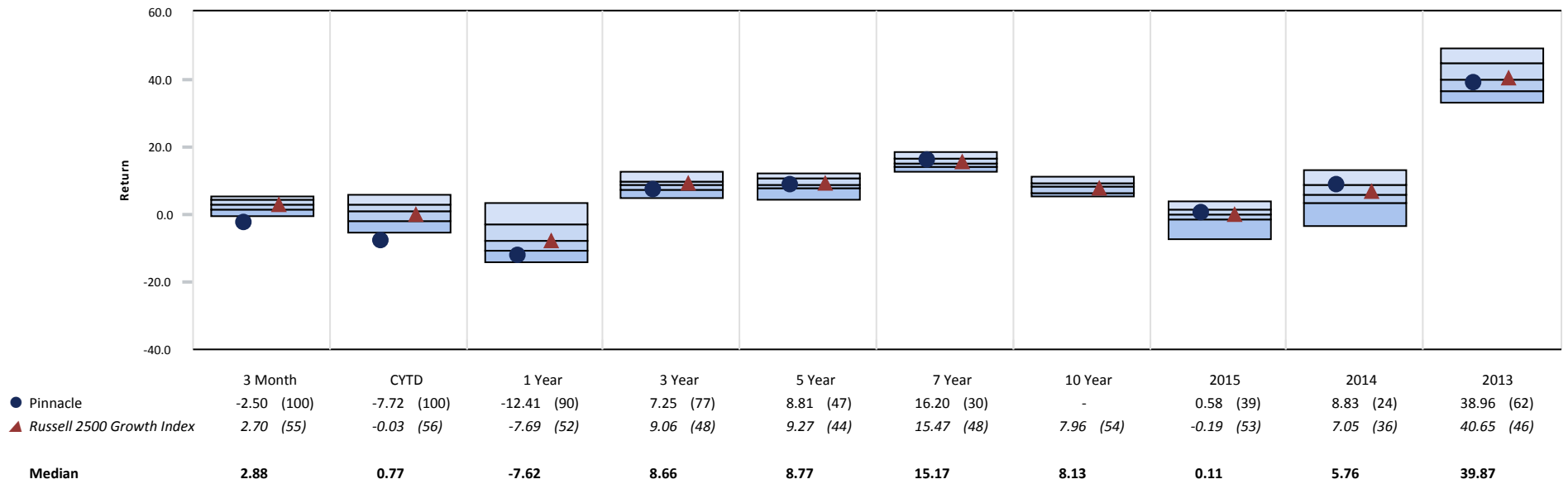


# City of Jacksonville Police & Fire Pension Fund

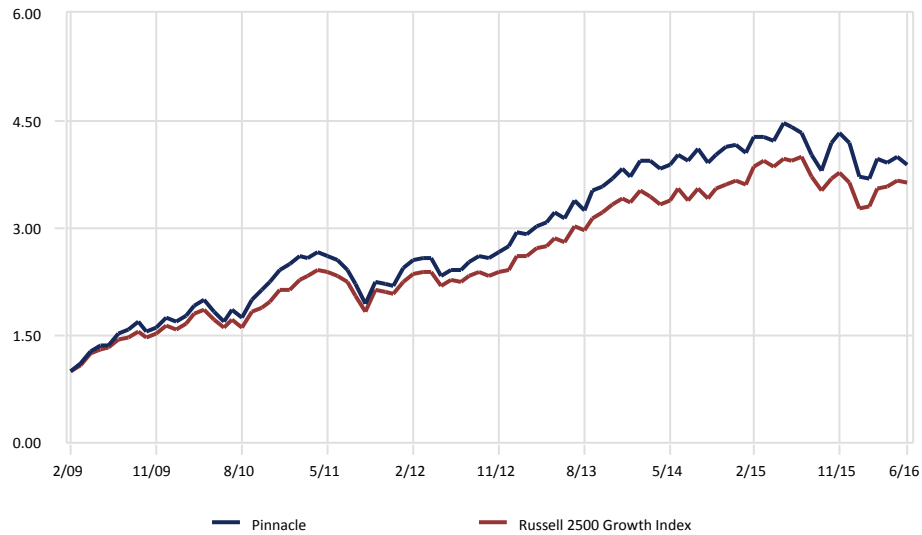
Pinnacle

June 30, 2016

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

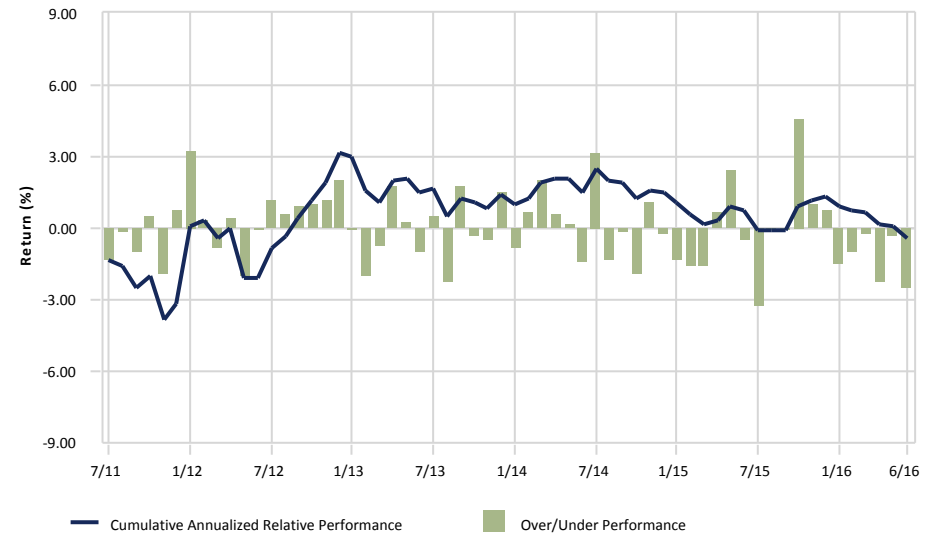


## Growth of \$1 - Since Inception (03/01/09)



gross of fees

## Relative Performance vs. Russell 2500 Growth Index



# City of Jacksonville Police & Fire Pension Fund

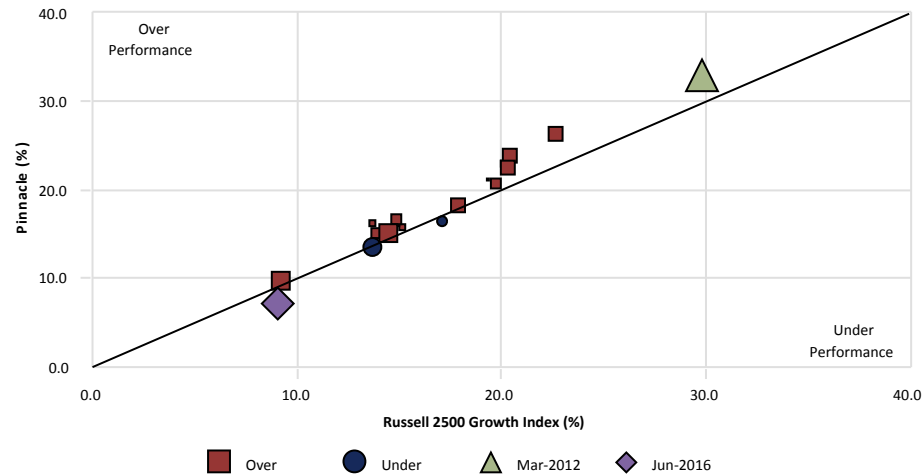
Pinnacle

June 30, 2016

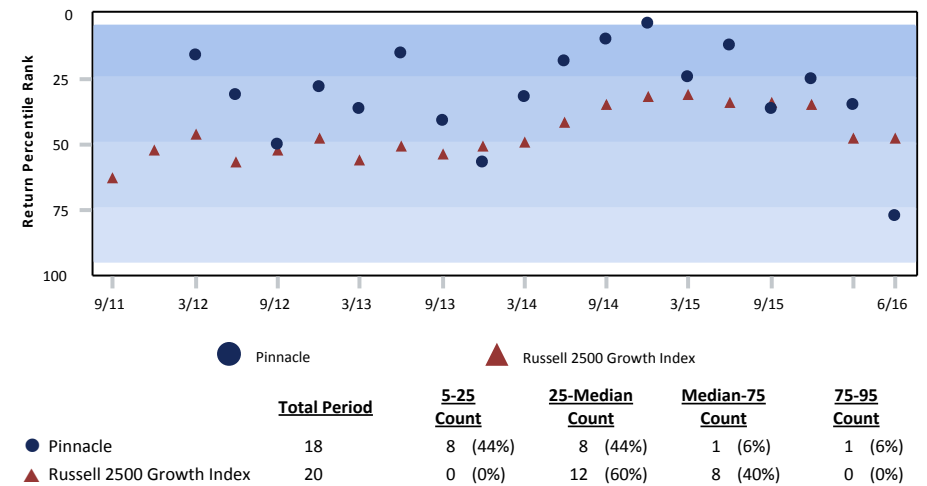
## 3 Year Portfolio Statistics

	Simple Alpha	Alpha	Beta	R-Squared	Tracking Error	Information Ratio	Sharpe Ratio	Consistency	Up Capture	Down Capture	Actual Correlation
Pinnacle	-1.81	-1.67	1.02	0.87	5.75	-0.26	0.52	38.89	97.09	104.35	0.93
Russell 2500 Growth Index	0.00	0.00	1.00	1.00	0.00	-	0.67	0.00	100.00	100.00	1.00
90 Day US Treasury Bill	-8.99	0.07	0.00	0.00	14.59	-0.67	-	38.89	0.08	-0.28	-0.05

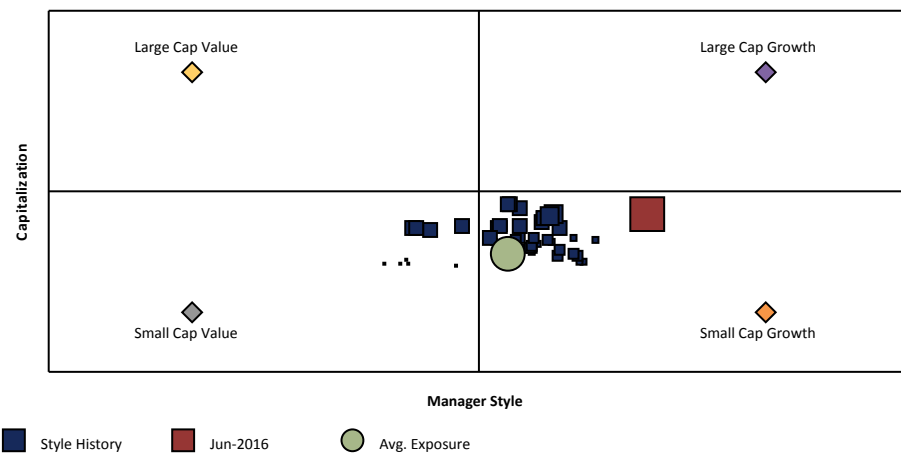
## 3 Year Rolling Under/Over Performance



## 3 Year Rolling Relative Ranking

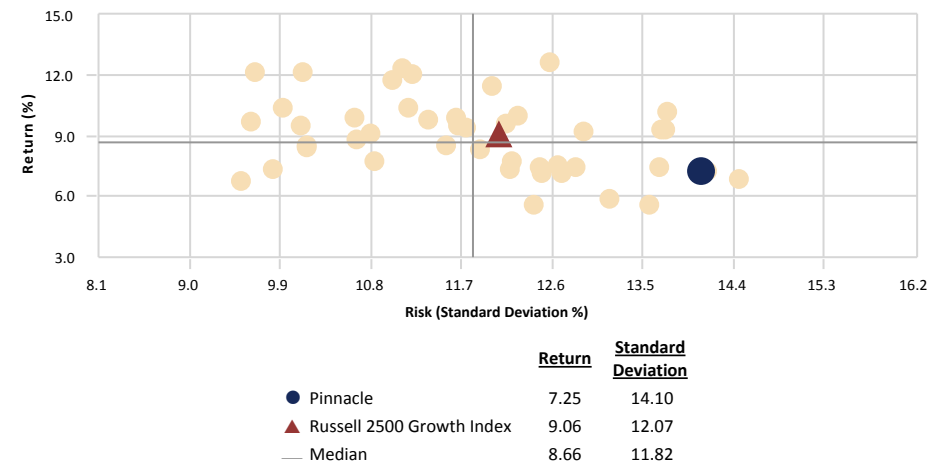


## 3 Year Style Analysis



gross of fees

## Risk vs. Return (07/01/13 - 06/30/16)



# City of Jacksonville Police & Fire Pension Fund

Pinnacle vs. Russell 2500 Growth Index

June 30, 2016

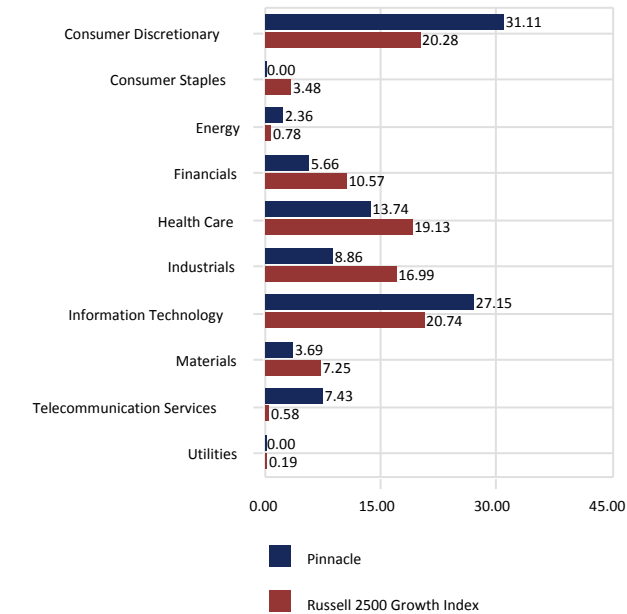
## Ten Best Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
MacroGenics Inc	0.78	0.05	0.73	43.95
CyrusOne Inc	1.25	0.20	1.05	22.82
Array BioPharma Inc	0.50	0.00	0.50	20.68
IAC/InterActiveCorp	1.26	0.18	1.08	19.58
UNIFI INC.	0.95	0.00	0.95	18.86
Cincinnati Bell Inc	2.12	0.00	2.12	18.09
Portola Pharmaceuticals Inc	0.57	0.06	0.51	15.69
Helmerich & Payne Inc.	0.62	0.00	0.62	15.64
Seattle Genetics Inc	1.75	0.22	1.53	15.16
Ambarella Inc	1.04	0.04	1.00	13.67
% of Portfolio	10.84	0.75		

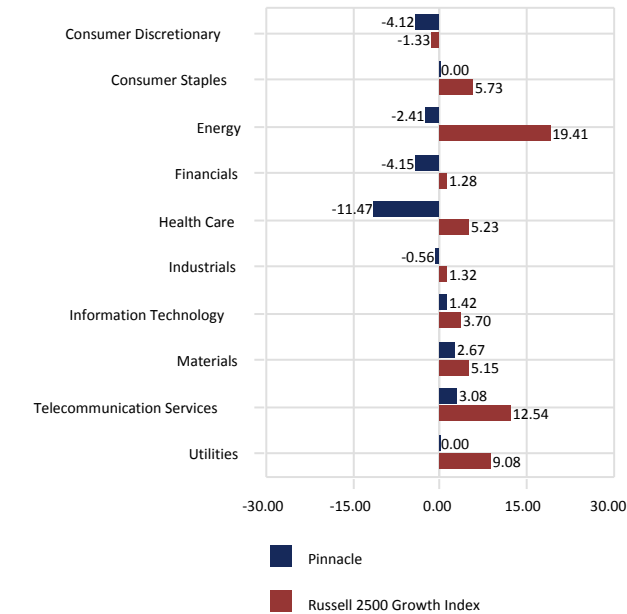
## Ten Worst Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Infinity Pharmaceuticals Inc	0.08	0.00	0.08	-74.76
ImmunoGen Inc	0.22	0.01	0.21	-63.85
Ionis Pharmaceuticals Inc	1.32	0.16	1.16	-42.49
SeaChange International Inc	0.35	0.00	0.35	-42.21
Waddell & Reed Financial Inc.	0.57	0.01	0.56	-25.35
FibroGen Inc	0.46	0.05	0.41	-22.92
Lazard Ltd	0.97	0.03	0.94	-22.44
Myriad Genetics Inc	1.18	0.12	1.06	-18.25
Royal Caribbean Cruises Ltd	3.73	0.00	3.73	-17.85
Robert Half International Inc.	0.84	0.27	0.57	-17.61
% of Portfolio	9.72	0.65		

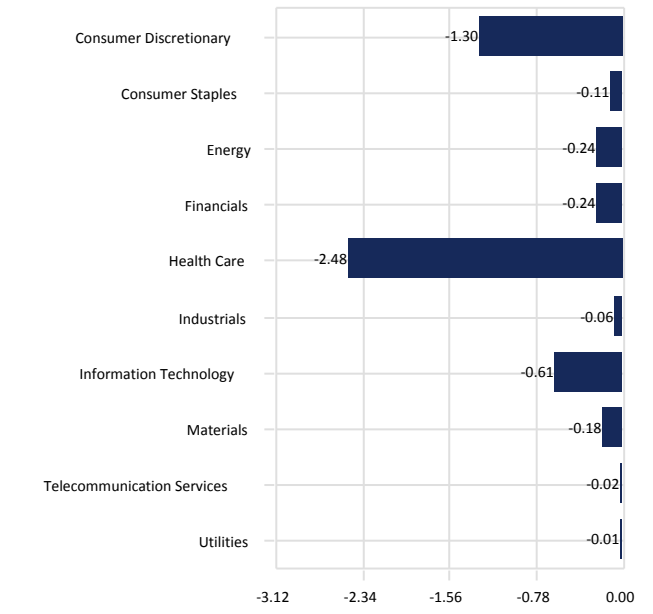
## Sector Allocation



## Sector Performance



## Total Sector Attribution



# City of Jacksonville Police & Fire Pension Fund

Pinnacle vs. Russell 2500 Growth Index

June 30, 2016

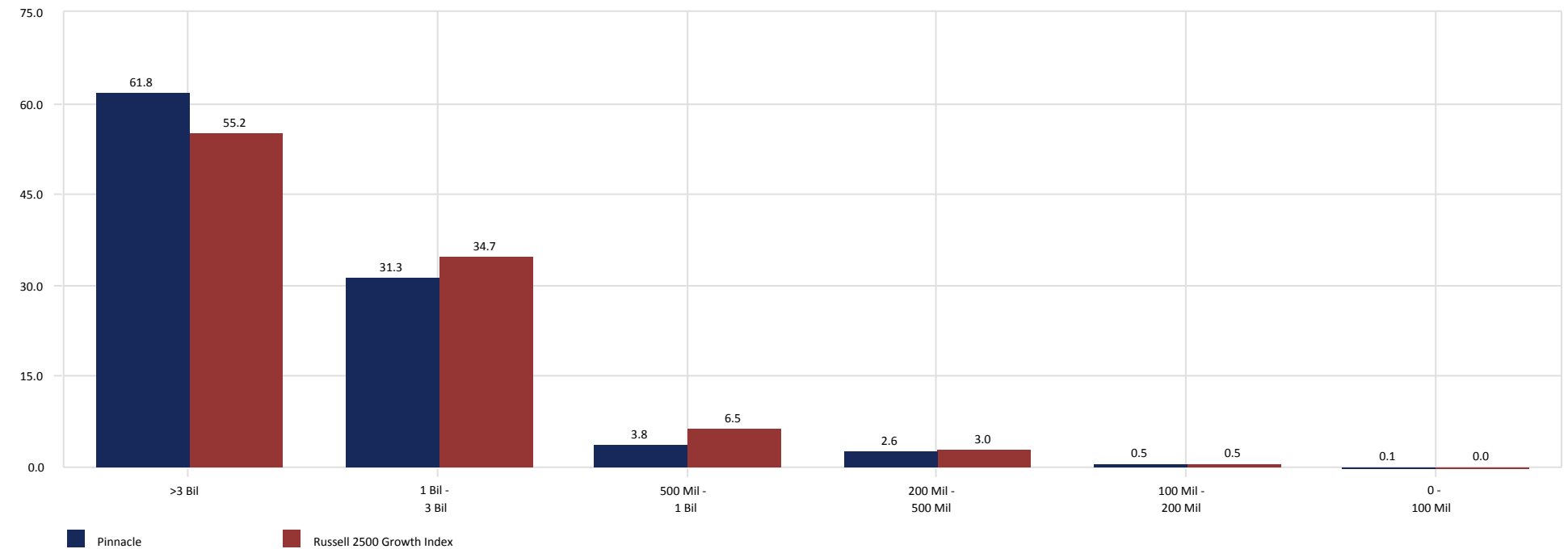
## Portfolio Characteristics

	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$000)	7,361,283	3,943,472
Median Mkt. Cap (\$000)	2,356,521	1,116,810
Price/Earnings ratio	15.57	24.28
Price/Book ratio	2.46	4.11
5 Yr. EPS Growth Rate (%)	7.47	11.48
Current Yield (%)	1.11	1.00
Beta (5 Years, Monthly)	1.06	1.00
Number of Stocks	76	1,463

## Top Ten Equity Holdings

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Lam Research Corp	4.71	0.00	4.71	2.14
Qorvo Inc	4.54	0.00	4.54	9.62
Royal Caribbean Cruises Ltd	3.73	0.00	3.73	-17.85
Regeneron Pharmaceuticals Inc	3.39	0.00	3.39	-3.11
Valspar Corp (The)	3.26	0.48	2.78	1.25
Level 3 Communications Inc	3.10	0.00	3.10	-2.57
InterXion Holding NV	2.75	0.00	2.75	6.65
Trimble Navigation Ltd	2.62	0.27	2.35	-1.77
Discovery Communications Inc	2.61	0.00	2.61	-11.67
TEGNA Inc	2.59	0.00	2.59	-0.63
% of Portfolio	33.30	0.75		

## Distribution of Market Capitalization (%)



## International Equity

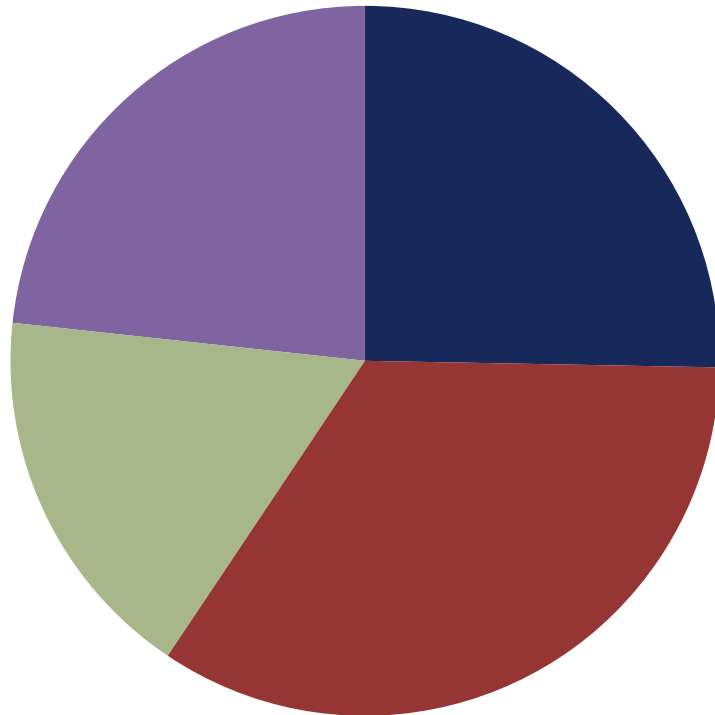
# City of Jacksonville Police & Fire Pension Fund

International Equity vs. MSCI AC World ex USA (Net)

June 30, 2016

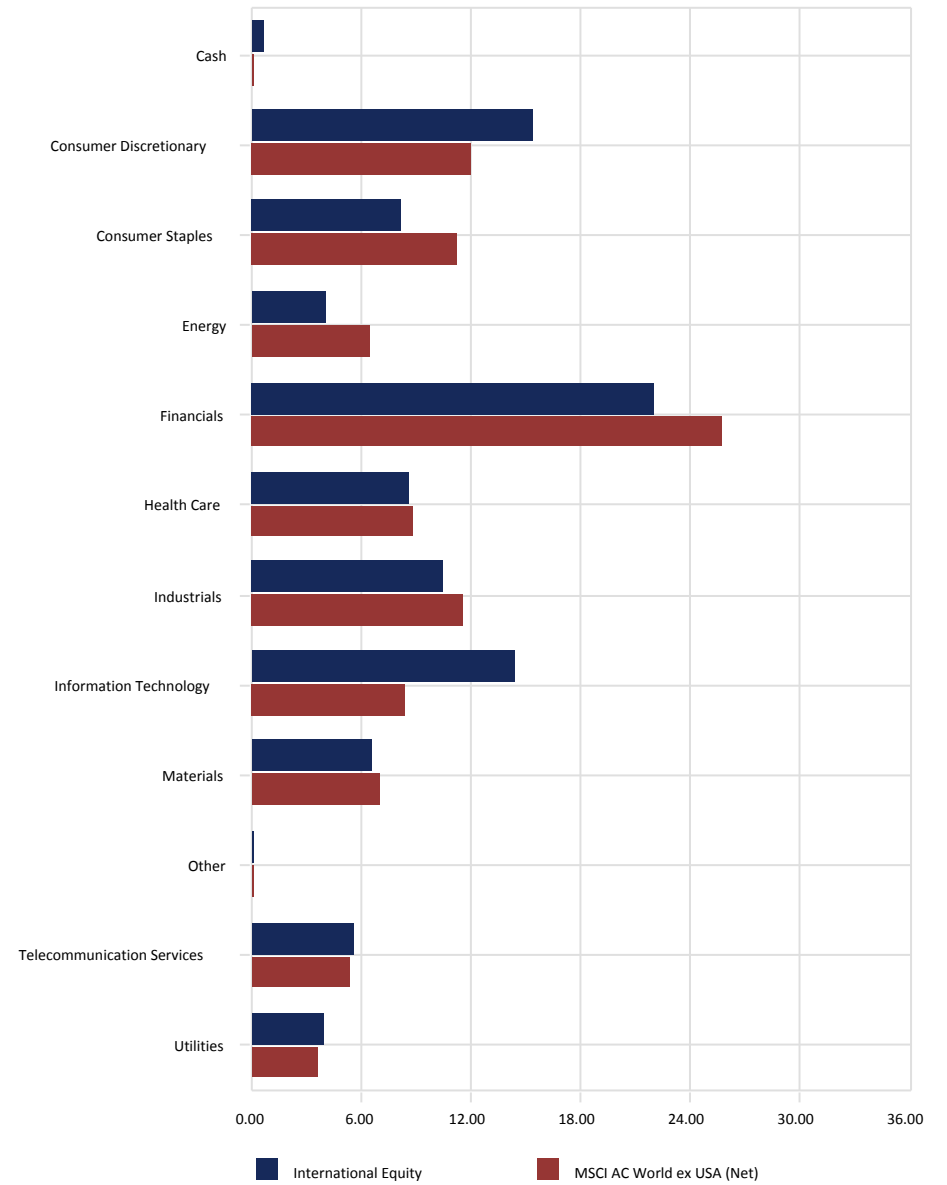
## Manager Allocation

June 30, 2016 : \$347,470,257

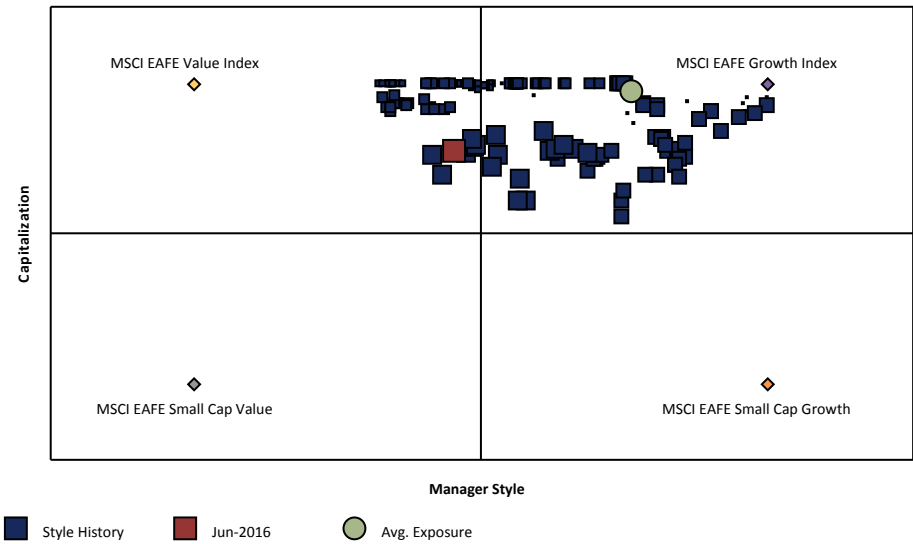


	Market Value (\$)	Allocation (%)
Baillie Gifford	87,878,482	25.29
NT EAFE Index Fund	118,487,732	34.10
Silchester	60,188,677	17.32
Acadian Emerging Mkts Equity II Fund	80,915,365	23.29

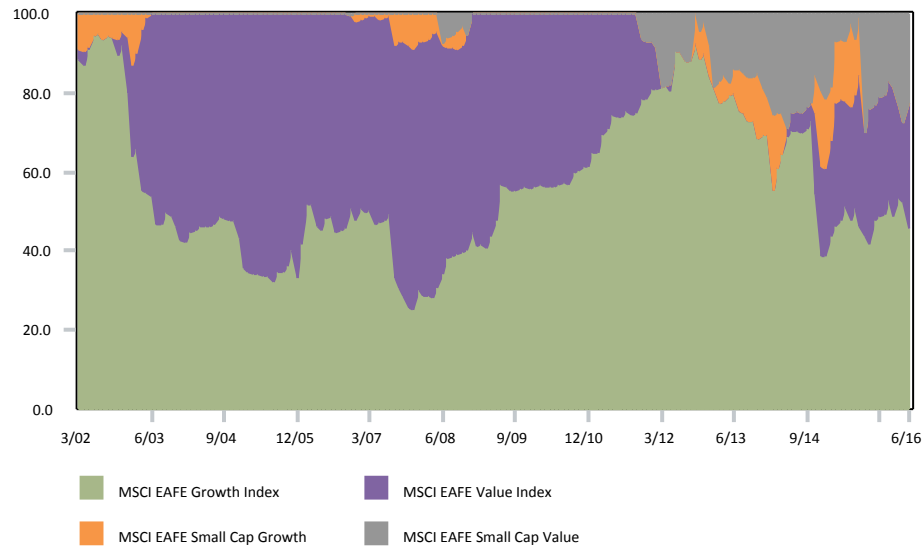
## Sector Allocation - Holdings Based



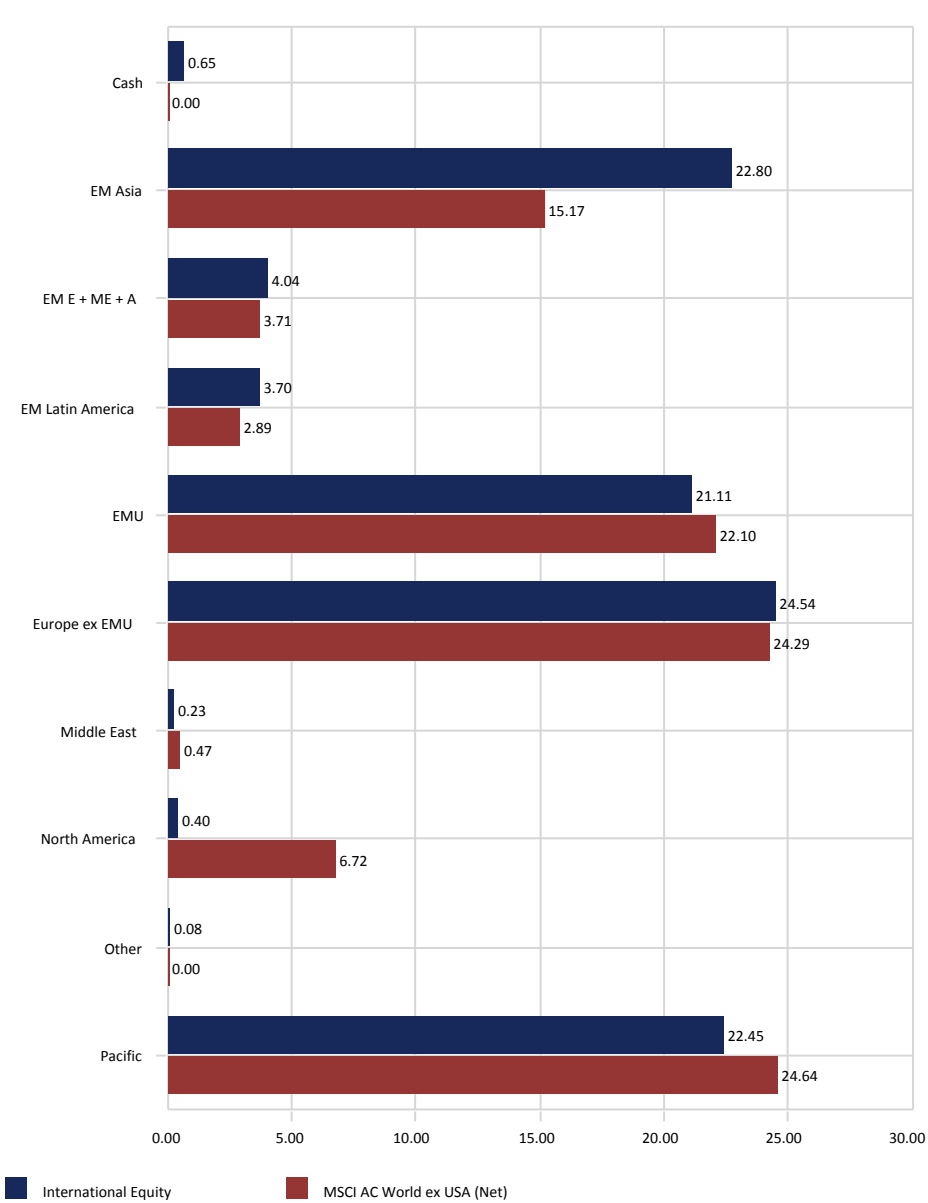
Style Analysis - Returns Based



3 Year Style Analysis



Region Allocation - Holdings Based

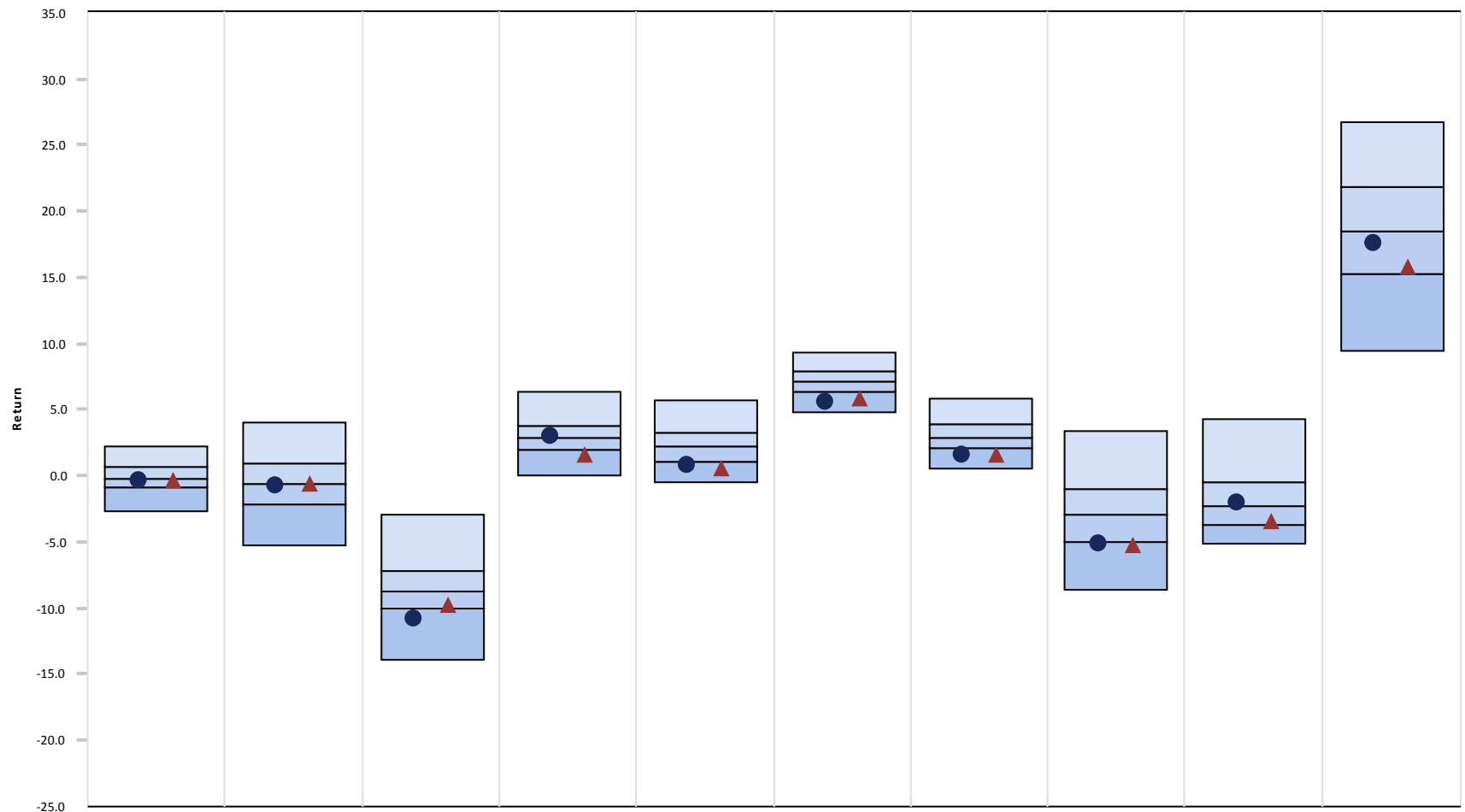




# City of Jacksonville Police & Fire Pension Fund

All Master Trust-Intl. Equity Segment

June 30, 2016



	<u>3 Month</u>	<u>CYTD</u>	<u>1 Year</u>	<u>3 Year</u>	<u>5 Year</u>	<u>7 Year</u>	<u>10 Year</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>
● International Equity	-0.33 (54)	-0.80 (55)	-10.81 (83)	3.00 (48)	0.81 (79)	5.57 (85)	1.58 (86)	-5.08 (77)	-2.08 (47)	17.57 (61)
▲ International Equity Index	-0.40 (56)	-0.67 (51)	-9.80 (70)	1.62 (80)	0.56 (84)	5.78 (83)	1.61 (86)	-5.25 (78)	-3.44 (72)	15.78 (72)
5th Percentile	2.16	4.08	-2.93	6.35	5.70	9.31	5.81	3.35	4.27	26.79
1st Quartile	0.62	0.98	-7.21	3.77	3.26	7.96	3.86	-1.00	-0.51	21.86
<b>Median</b>	<b>-0.26</b>	<b>-0.63</b>	<b>-8.72</b>	<b>2.84</b>	<b>2.17</b>	<b>7.13</b>	<b>2.85</b>	<b>-2.94</b>	<b>-2.25</b>	<b>18.53</b>
3rd Quartile	-0.90	-2.18	-10.02	1.95	1.12	6.36	2.12	-4.94	-3.66	15.28
95th Percentile	-2.62	-5.26	-13.96	0.06	-0.51	4.77	0.58	-8.66	-5.15	9.45

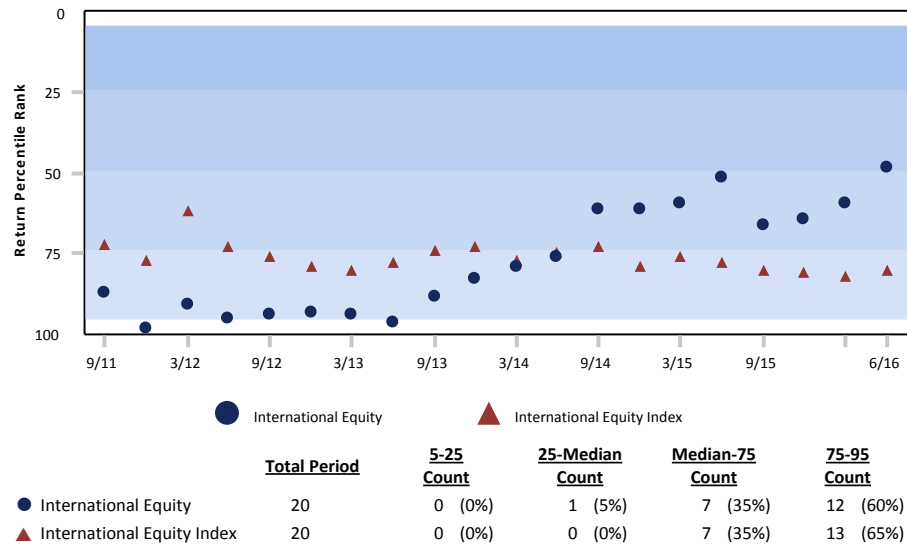
Parentheses contain percentile rankings.

# City of Jacksonville Police & Fire Pension Fund

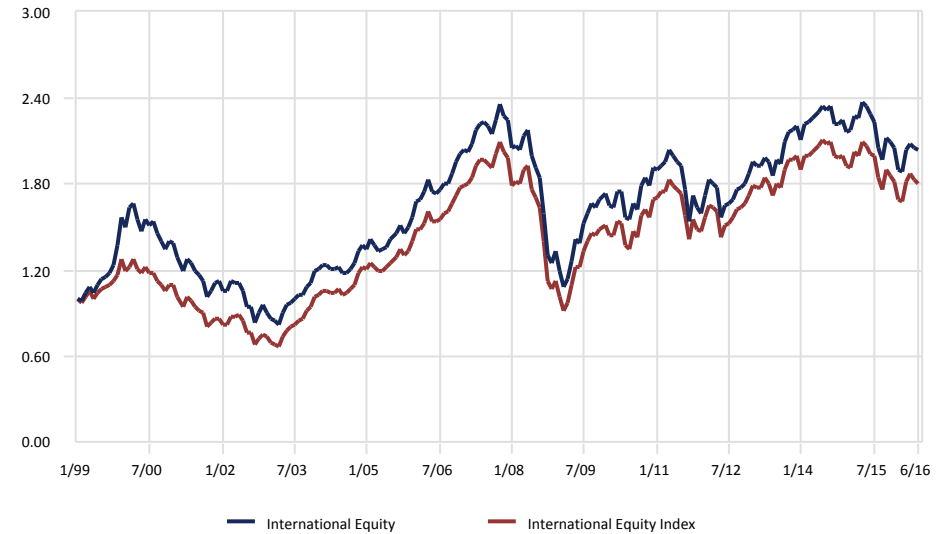
## International Equity

June 30, 2016

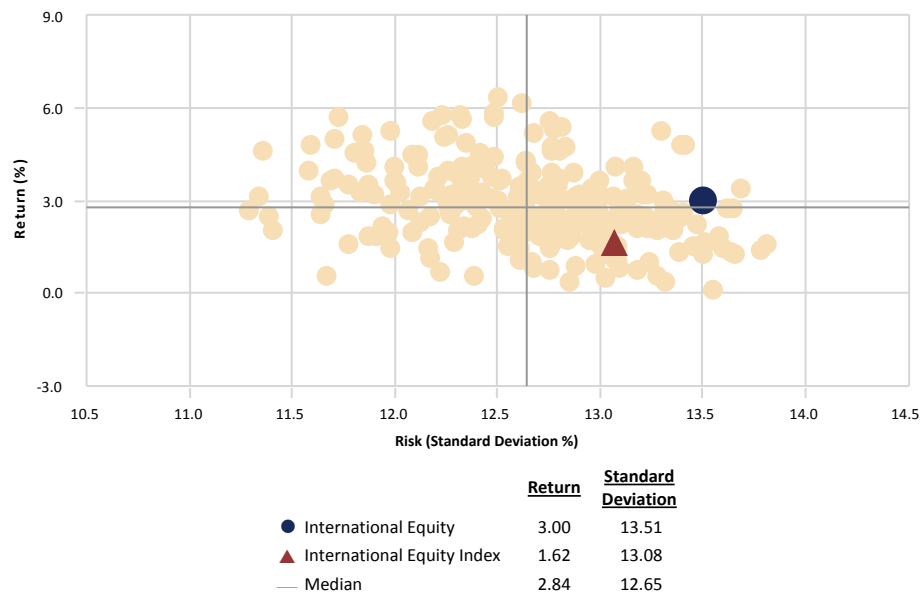
### 3 Year Rolling Return Rank



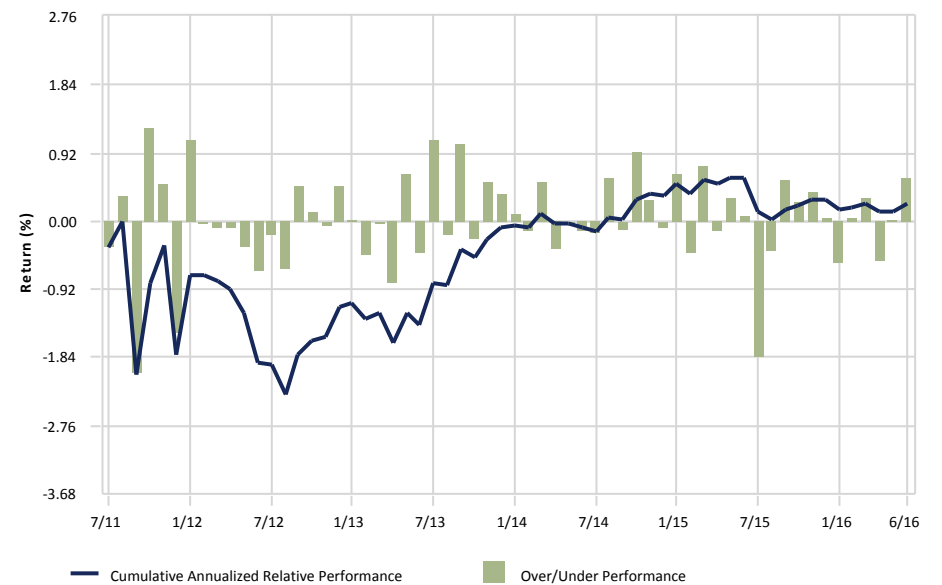
### Growth of \$1 - Since Inception (02/01/99)



### Risk vs. Return (07/01/13 - 06/30/16)



### Relative Performance vs. International Equity Index

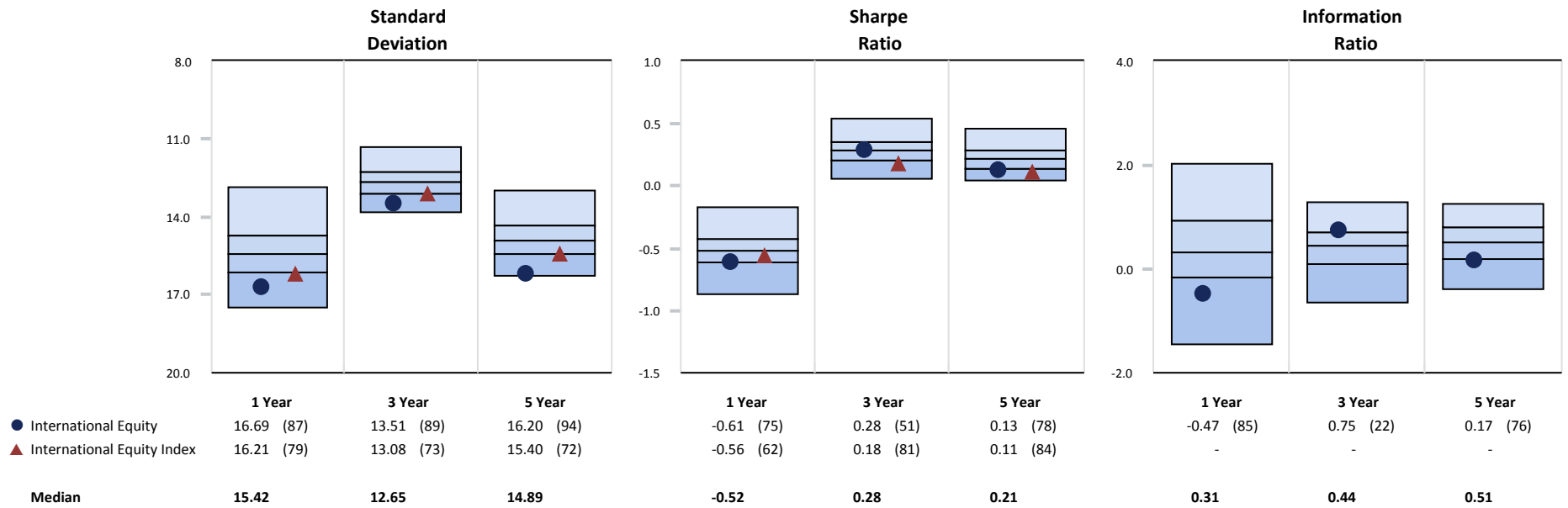


# City of Jacksonville Police & Fire Pension Fund

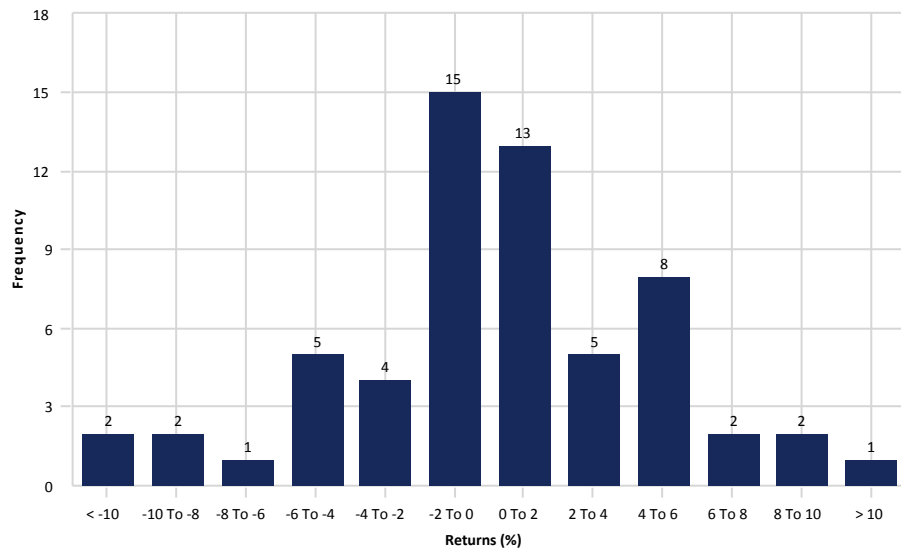
International Equity

June 30, 2016

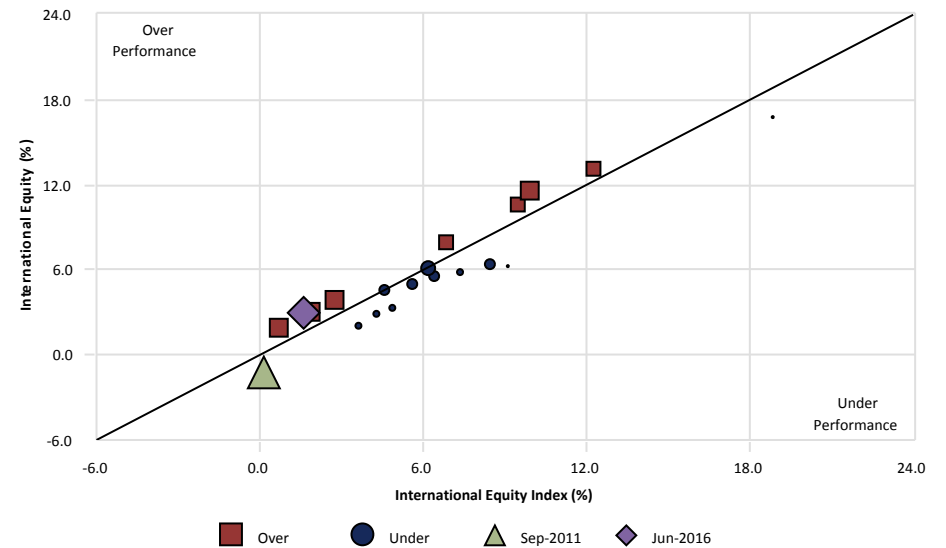
## Peer Group Analysis: All Master Trust-Intl. Equity Segment



## Monthly Distribution of Returns



## 3 Year Rolling Under/Over Performance

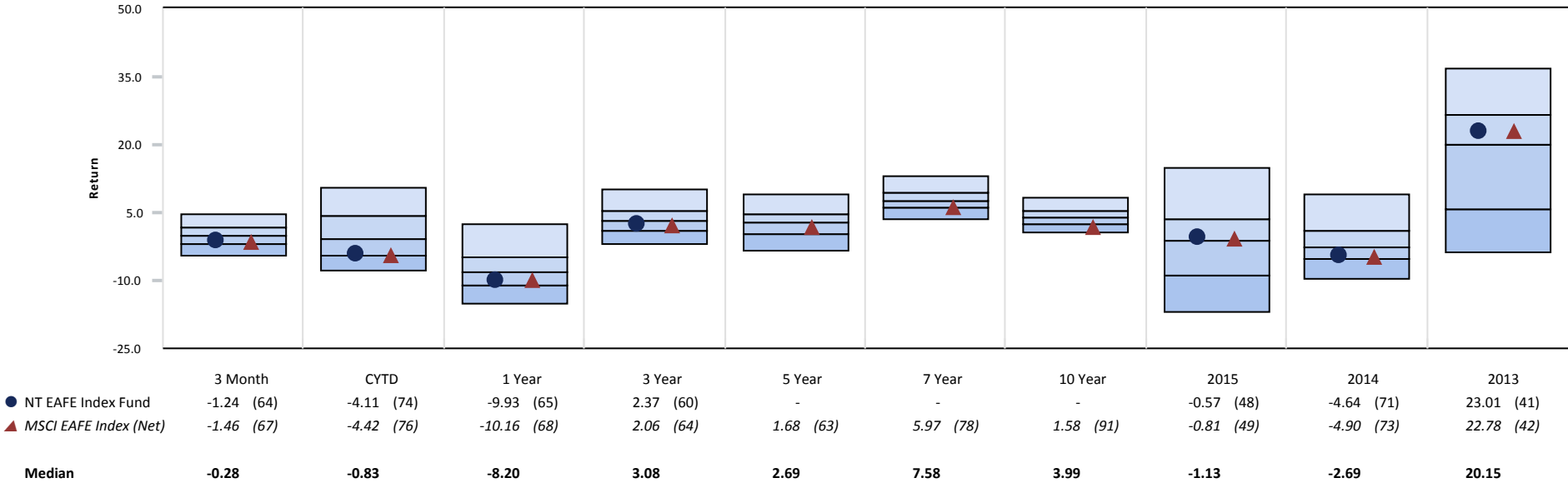


City of Jacksonville Police & Fire Pension Fund

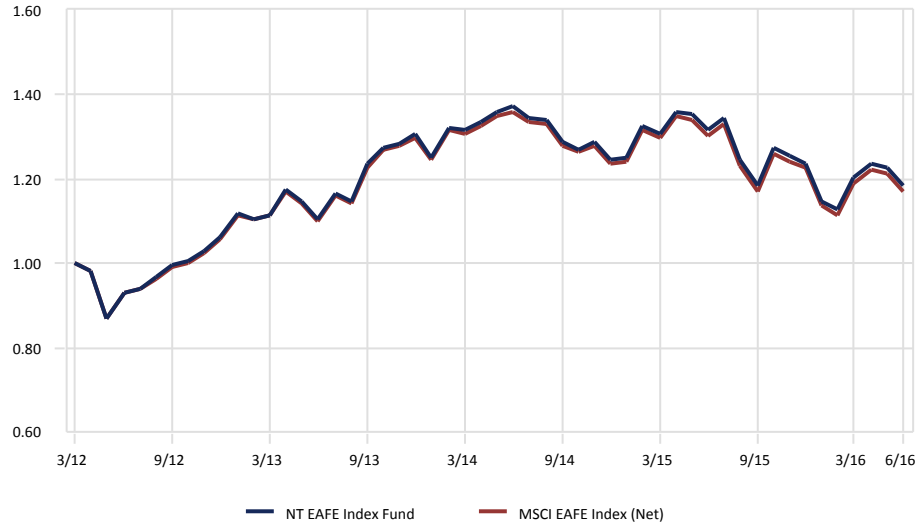
NT EAFE Index Fund

June 30, 2016

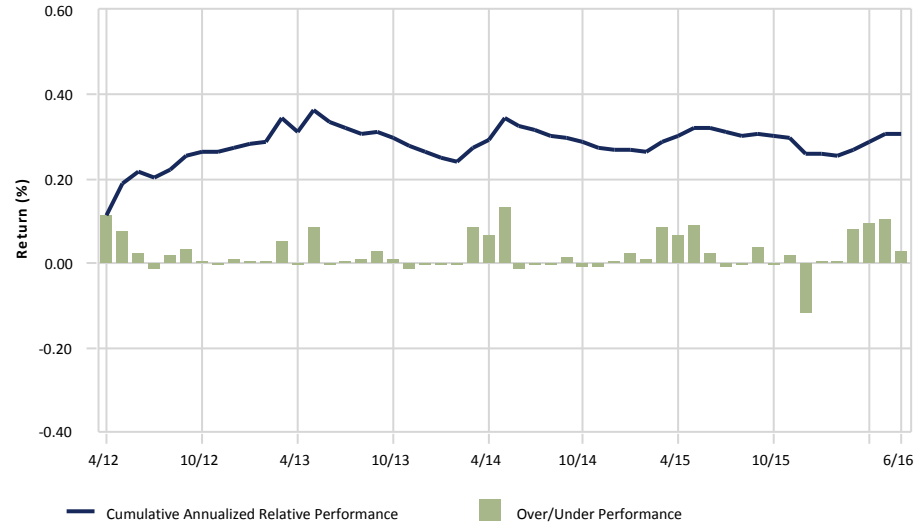
Peer Group Analysis - IM International Equity (SA+CF)



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



Relative Performance vs. MSCI EAFE Index (Net)



# City of Jacksonville Police & Fire Pension Fund

NT EAFE Index Fund vs. MSCI EAFE Index (Net)

June 30, 2016

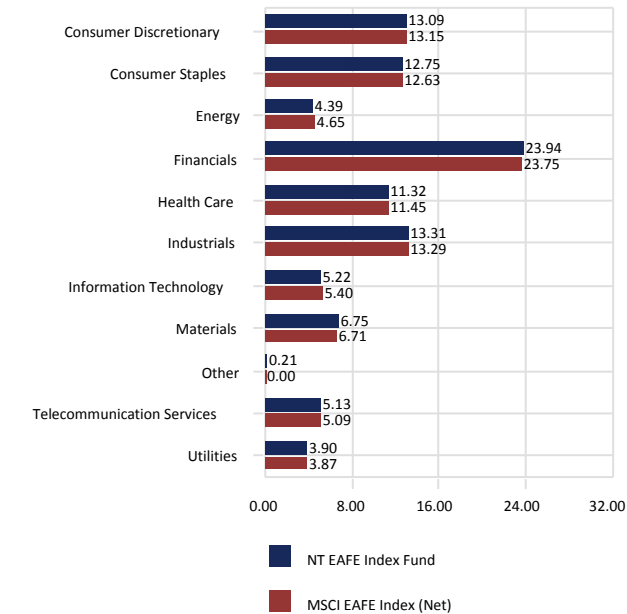
## Ten Best Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Rizzoli Corriere Della Sera Mediagroup SPA	0.00	0.00	0.00	66.40
Fresnillo PLC	0.04	0.04	0.00	60.82
Sumitomo Dainippon Pharma Co	0.02	0.02	0.00	48.89
Toshiba Corp	0.09	0.09	0.00	37.83
M3 Inc	0.06	0.06	0.00	36.89
Fortescue Metals Group Ltd	0.03	0.03	0.00	32.47
Taisho Pharmaceutical Holdings Co Ltd	0.03	0.03	0.00	31.73
Yamazaki Baking Co Ltd	0.03	0.03	0.00	31.27
Newcrest Mining Ltd	0.11	0.11	0.00	30.88
Nitori Holdings Co Ltd	0.08	0.08	0.00	30.71
% of Portfolio	0.49	0.49		

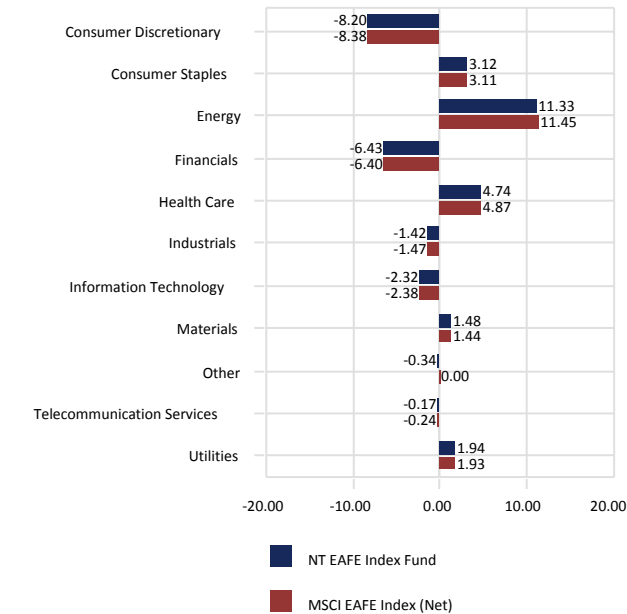
## Ten Worst Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Banco Popular Espanol SA, Madrid	0.04	0.04	0.00	-45.31
Eutelsat Communications SA	0.03	0.03	0.00	-41.54
SFR Group	0.02	0.02	0.00	-40.40
Noble Group Ltd	0.01	0.01	0.00	-39.83
Mitsubishi Motors Corp	0.03	0.03	0.00	-39.24
Unicredit SPA	0.09	0.09	0.00	-37.23
International Consolidated Airlines Group SA	0.03	0.03	0.00	-37.06
Persimmon PLC	0.05	0.05	0.00	-35.47
Easyjet PLC	0.02	0.02	0.00	-33.53
Qantas Airways Ltd	0.01	0.01	0.00	-33.13
% of Portfolio	0.33	0.33		

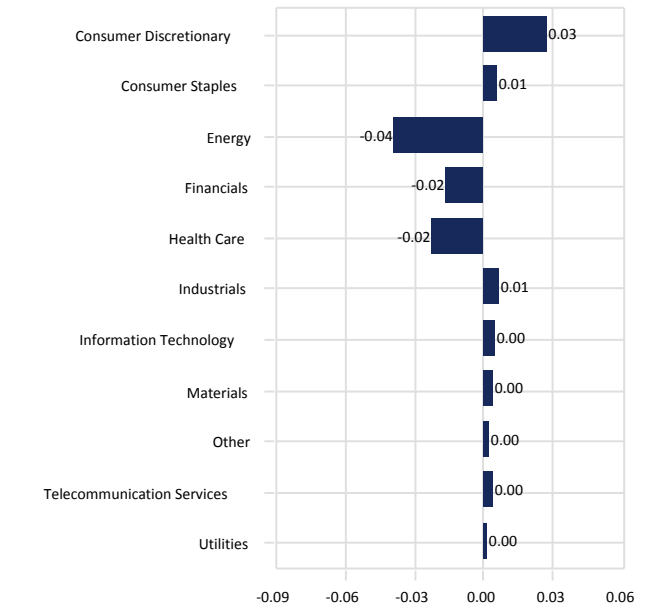
## Sector Allocation



## Sector Performance



## Total Sector Attribution



# City of Jacksonville Police & Fire Pension Fund

NT EAFE Index Fund vs. MSCI EAFE Index (Net)

June 30, 2016

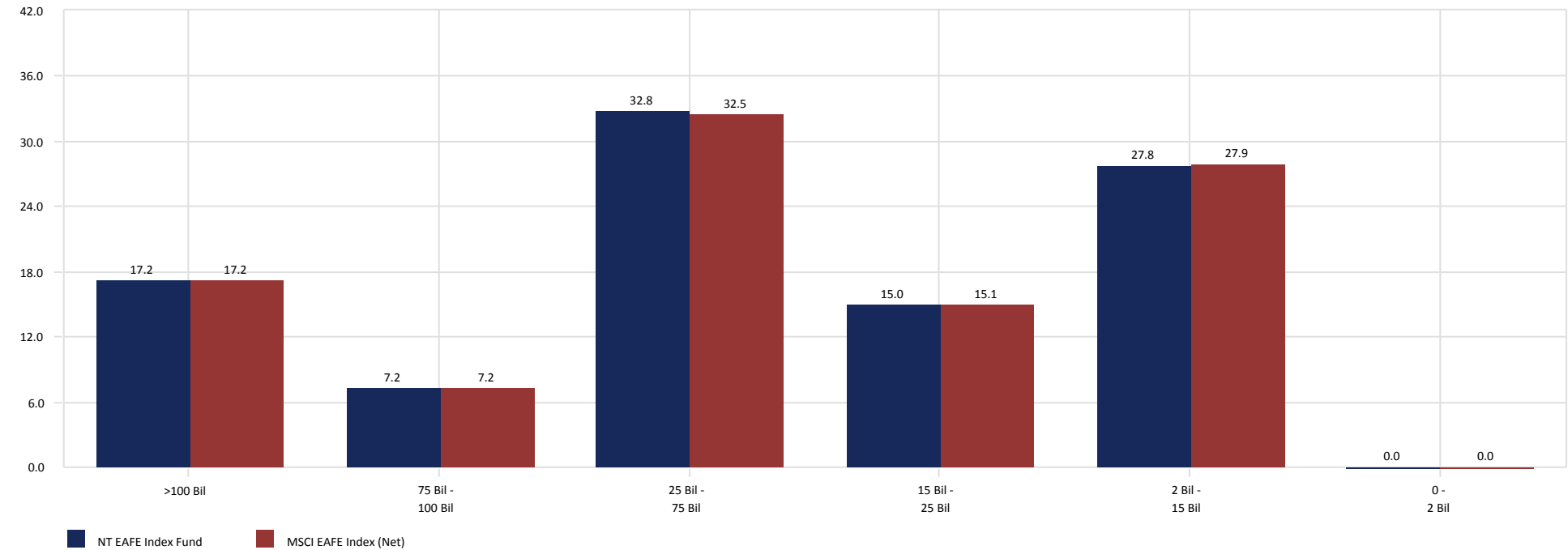
## Portfolio Characteristics

	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$000)	54,830,007	54,758,844
Median Mkt. Cap (\$000)	8,648,053	8,615,463
Price/Earnings ratio	15.56	15.56
Price/Book ratio	2.30	2.29
5 Yr. EPS Growth Rate (%)	5.31	5.30
Current Yield (%)	3.56	3.57
Beta (3 Years, Monthly)	1.00	1.00
Number of Stocks	963	930

## Top Ten Equity Holdings

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Nestle SA, Cham Und Vevey	2.10	2.10	0.00	6.09
Novartis AG	1.59	1.60	-0.01	13.01
Roche Holding AG	1.57	1.58	-0.01	6.33
Toyota Motor Corp	1.12	1.12	0.00	-7.31
HSBC Holdings PLC	1.04	1.05	-0.01	1.44
British American Tobacco PLC	1.03	1.03	0.00	10.09
Royal Dutch Shell PLC	1.00	0.99	0.01	15.26
BP PLC	0.92	0.93	-0.01	18.58
Total	0.91	0.91	0.00	7.08
Anheuser-Busch InBev SA/NV	0.89	0.90	-0.01	6.87
% of Portfolio	12.17	12.21		

## Distribution of Market Capitalization (%)

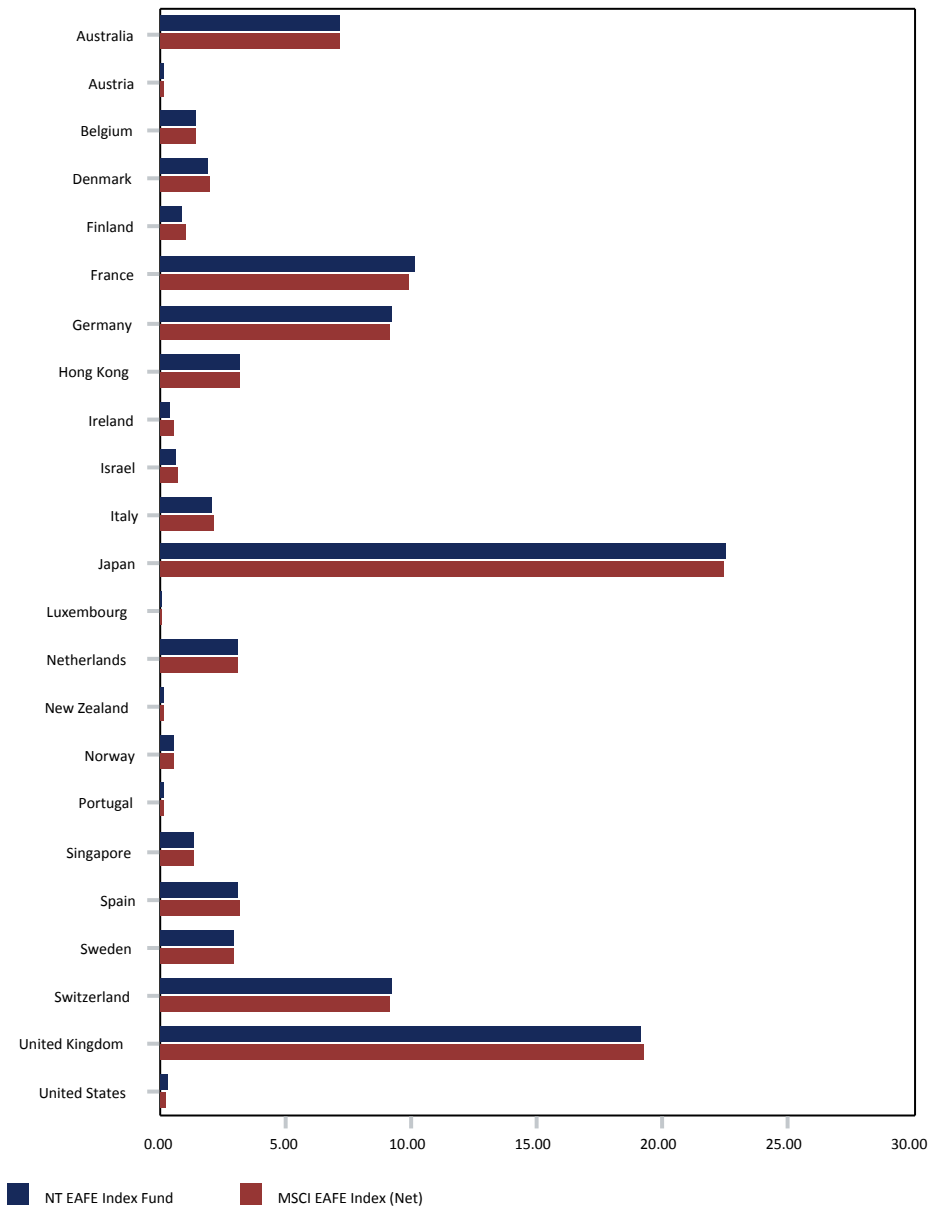


City of Jacksonville Police & Fire Pension Fund

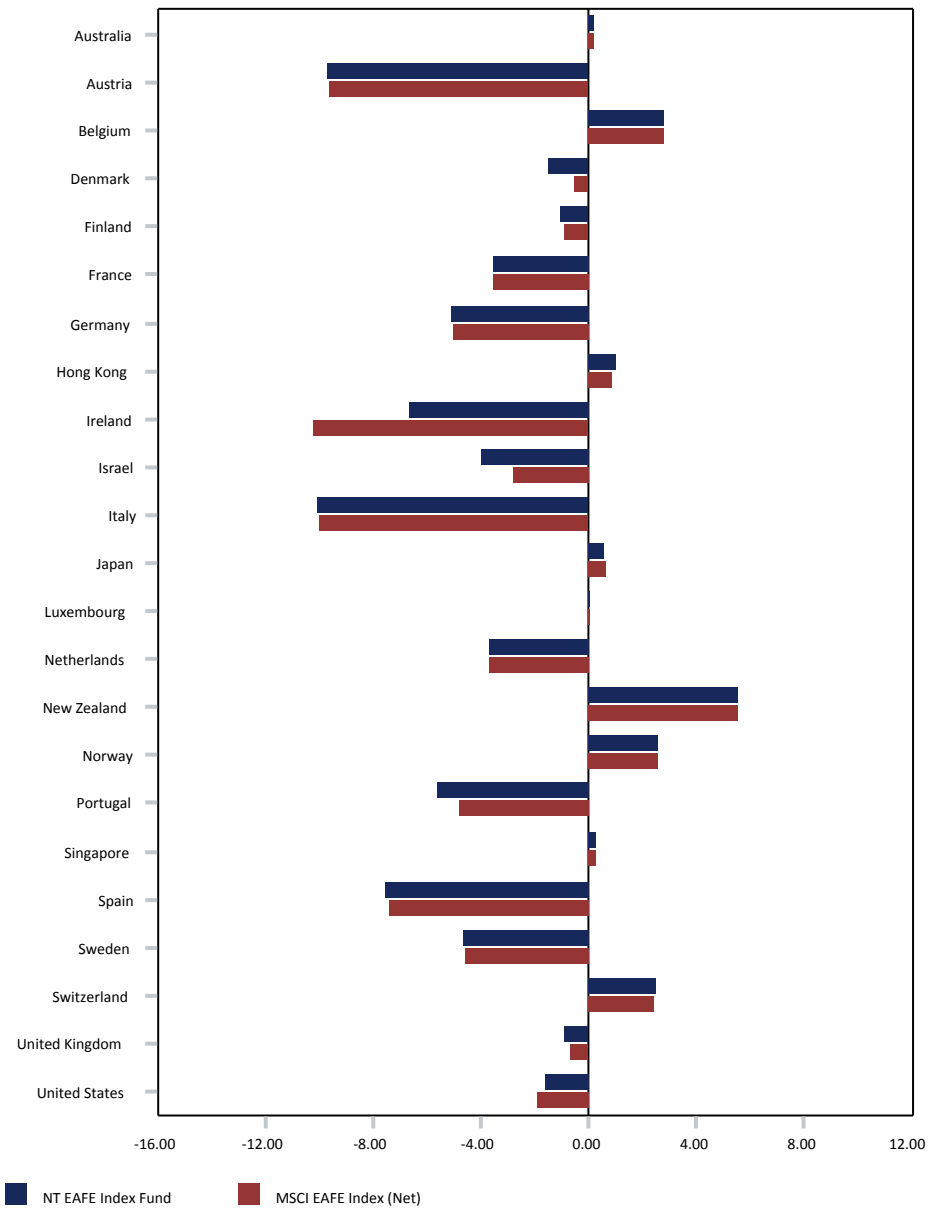
NT EAFE Index Fund vs. MSCI EAFE Index (Net)

June 30, 2016

Country Allocation



Country Performance

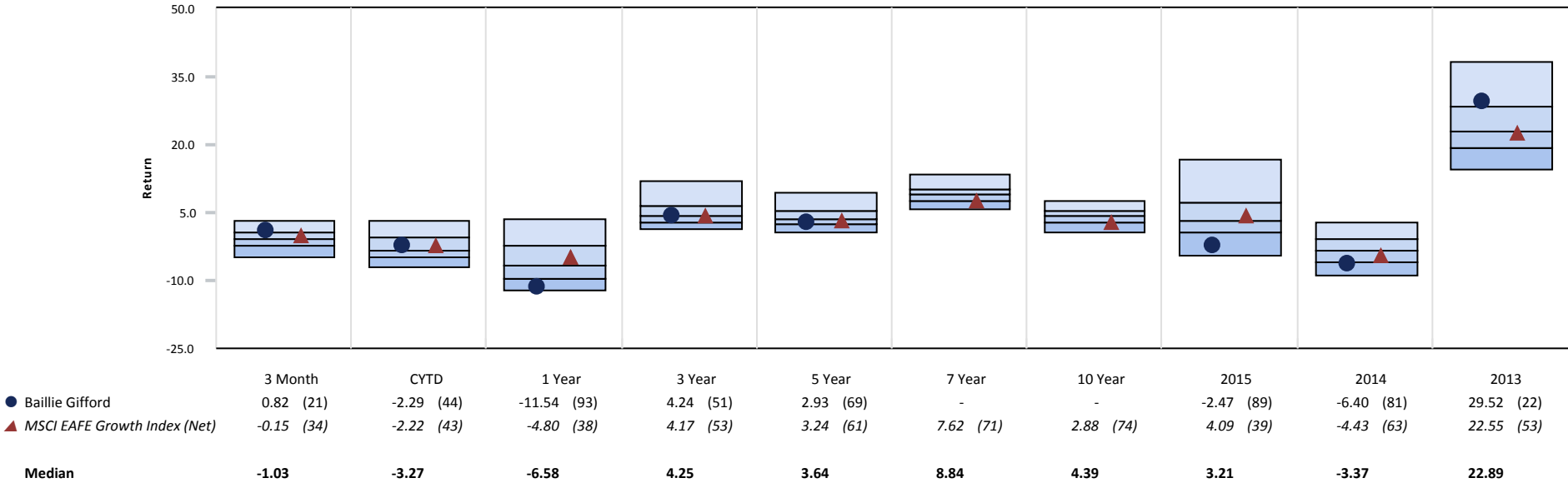


City of Jacksonville Police & Fire Pension Fund

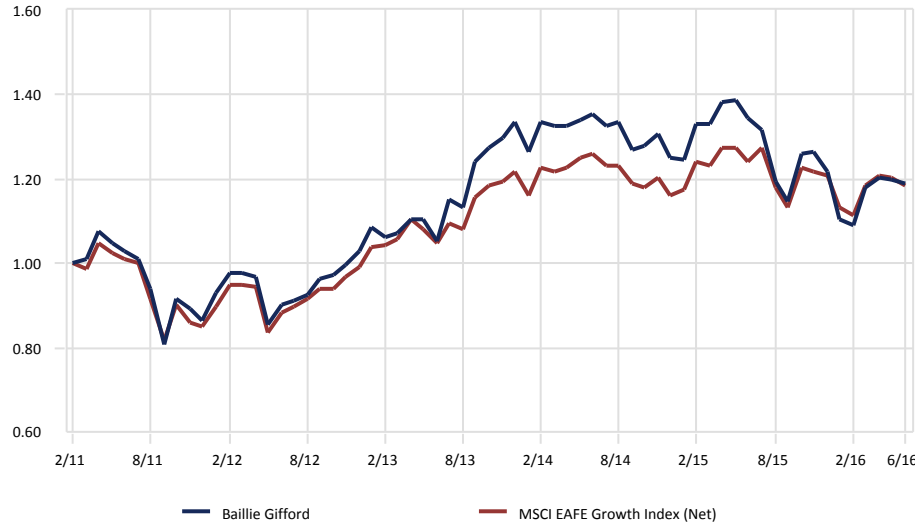
Baillie Gifford

June 30, 2016

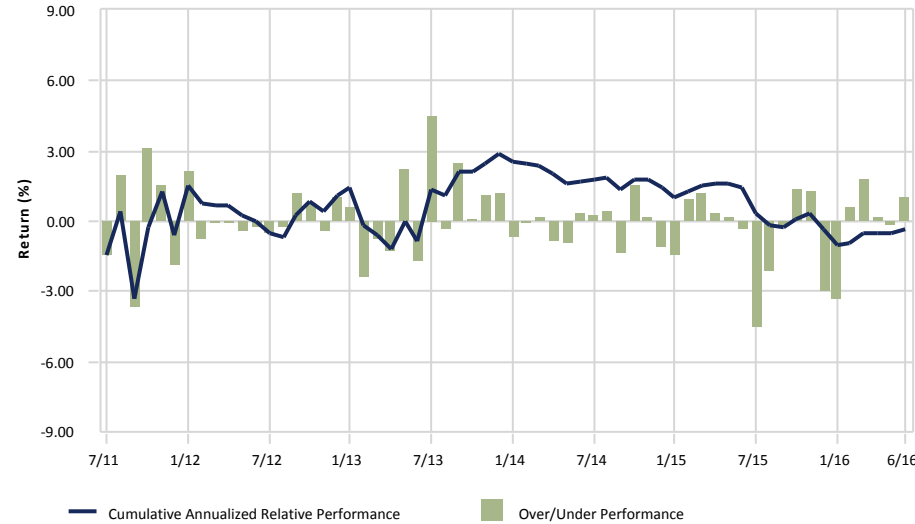
Peer Group Analysis - IM International Growth Equity (SA+CF)



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



Relative Performance vs. MSCI EAFE Growth Index (Net)



gross of fees



# City of Jacksonville Police & Fire Pension Fund

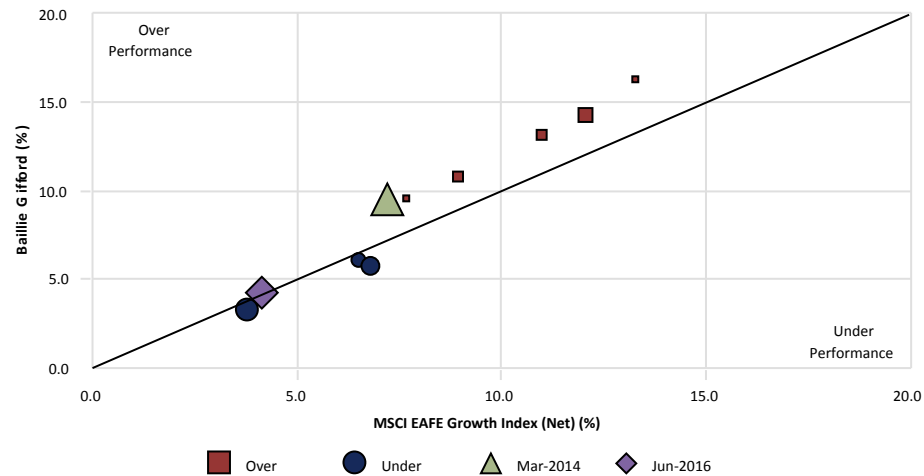
Baillie Gifford

June 30, 2016

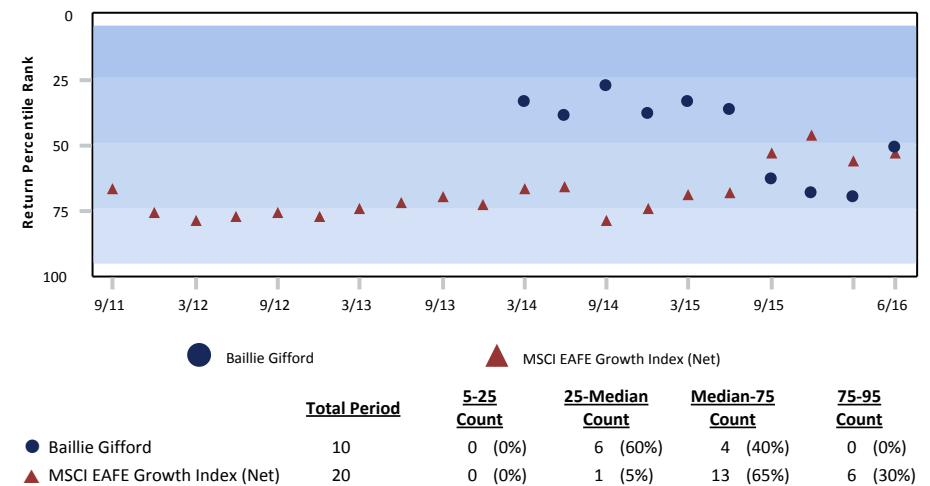
## 3 Year Portfolio Statistics

	Simple Alpha	Alpha	Beta	R-Squared	Tracking Error	Information Ratio	Sharpe Ratio	Consistency	Up Capture	Down Capture	Actual Correlation
Baillie Gifford	0.07	-0.51	1.22	0.90	5.67	0.10	0.34	58.33	113.12	113.63	0.95
MSCI EAFE Growth Index (Net)	0.00	0.00	1.00	1.00	0.00	-	0.39	0.00	100.00	100.00	1.00
90 Day US Treasury Bill	-4.10	0.07	0.00	0.00	12.35	-0.39	-	50.00	0.13	-0.30	-0.05

## 3 Year Rolling Under/Over Performance



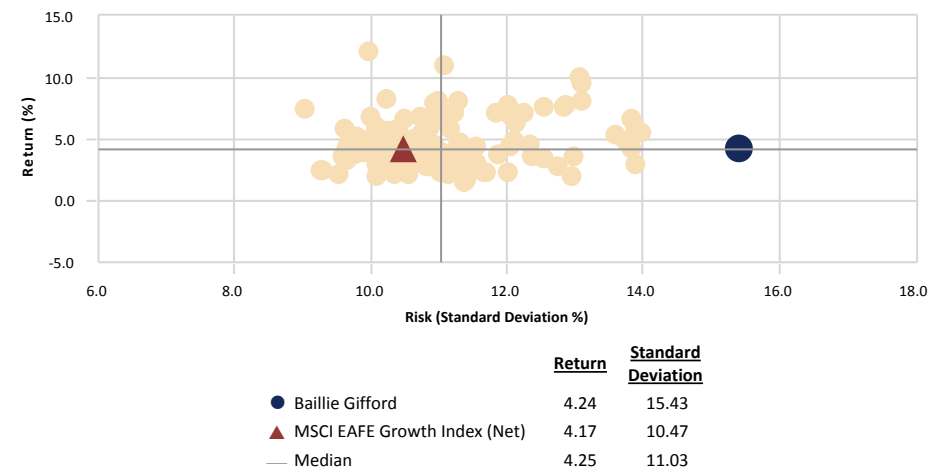
## 3 Year Rolling Relative Ranking



## 3 Year Style Analysis



## Risk vs. Return (07/01/13 - 06/30/16)



gross of fees

# City of Jacksonville Police & Fire Pension Fund

Baillie Gifford vs. MSCI EAFE Growth Index (Net)

June 30, 2016

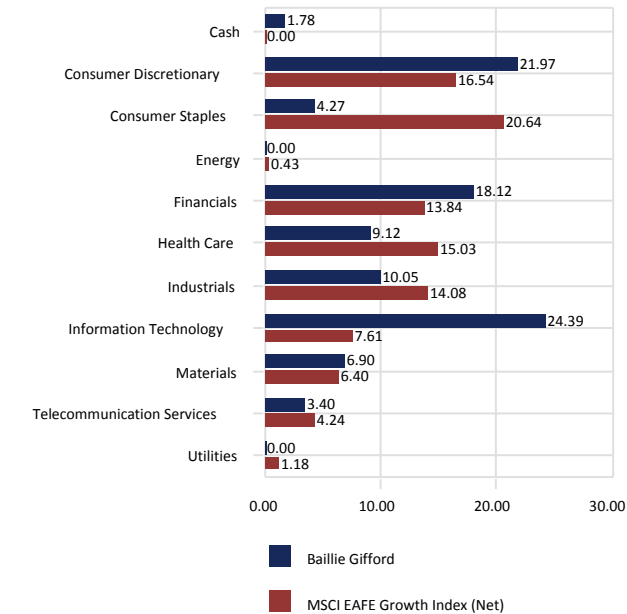
## Ten Best Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
M3 Inc	4.29	0.11	4.18	36.89
Genmab A/S	1.51	0.17	1.34	30.14
Aixtron SE	0.35	0.00	0.35	25.17
TAL Education Group	0.61	0.00	0.61	24.92
New Oriental Education & Technology Group Inc	1.56	0.00	1.56	21.08
MercadoLibre Inc	1.16	0.00	1.16	19.50
Softbank Group Corp	4.03	0.90	3.13	17.81
James Hardie Industries Plc	0.84	0.11	0.73	12.57
Pigeon Corp	0.76	0.00	0.76	12.48
Aggreko PLC	1.17	0.05	1.12	12.05
% of Portfolio	16.28	1.34		

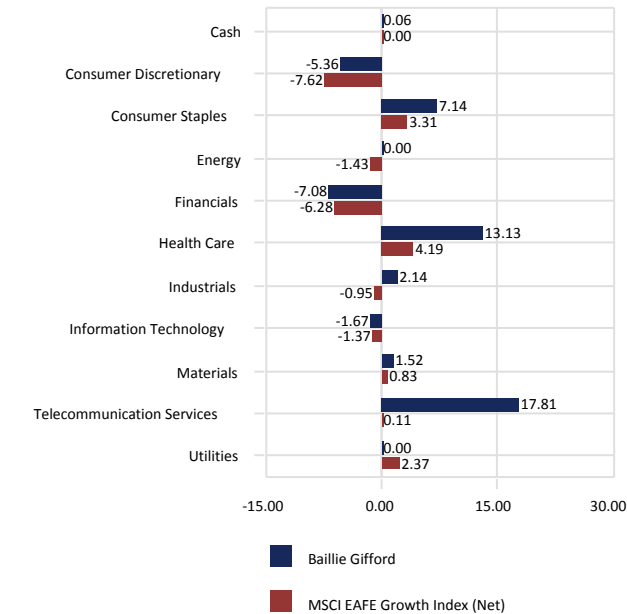
## Ten Worst Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Banco Popular Espanol SA, Madrid	0.81	0.05	0.76	-45.31
Rocket Internet SE	0.48	0.00	0.48	-30.80
Ocado Group PLC	0.36	0.00	0.36	-26.06
Dialog Semiconductor Plc, London	0.49	0.00	0.49	-24.85
Fiat Chrysler Automobiles NV	2.17	0.09	2.08	-24.15
Zalando SE	2.32	0.04	2.28	-19.89
JD.com Inc	0.40	0.00	0.40	-19.89
AMS AG	0.48	0.00	0.48	-17.96
Gemalto	0.54	0.08	0.46	-17.09
Morphosys AG, Martinsried	0.42	0.00	0.42	-14.19
% of Portfolio	8.47	0.26		

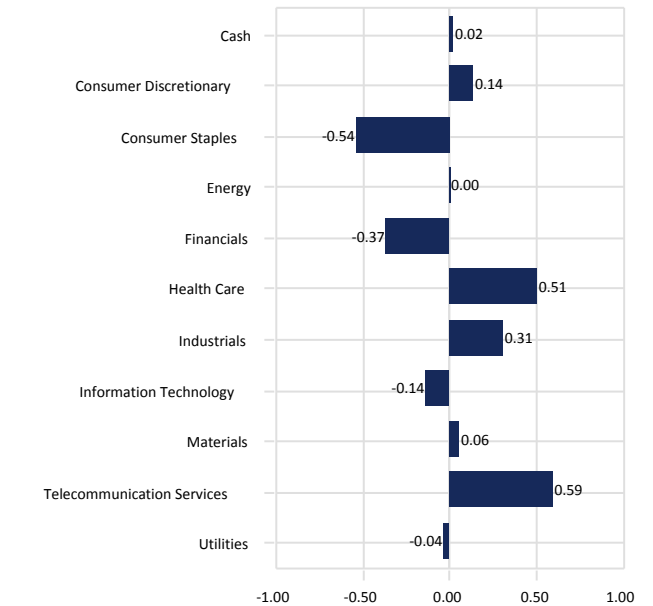
## Sector Allocation



## Sector Performance



## Total Sector Attribution



# City of Jacksonville Police & Fire Pension Fund

Baillie Gifford vs. MSCI EAFE Growth Index (Net)

June 30, 2016

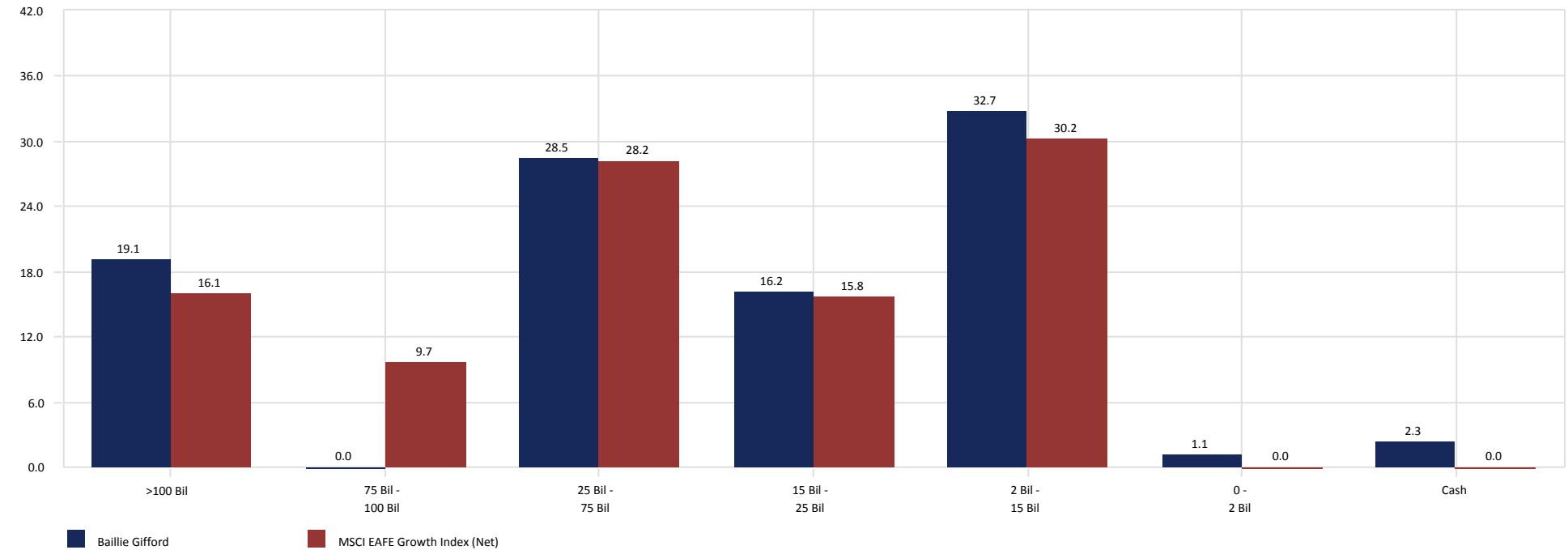
## Portfolio Characteristics

	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$000)	48,385,234	56,800,138
Median Mkt. Cap (\$000)	11,167,858	8,599,950
Price/Earnings ratio	24.44	19.99
Price/Book ratio	3.94	2.97
5 Yr. EPS Growth Rate (%)	13.22	9.40
Current Yield (%)	1.44	2.48
Beta (5 Years, Monthly)	1.15	1.00
Number of Stocks	63	542

## Top Ten Equity Holdings

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Industria De Diseno Textil Inditex SA	5.34	0.61	4.73	-0.35
Baidu Inc	5.04	0.00	5.04	-13.48
Tencent Holdings LTD	4.99	0.00	4.99	11.49
Alia Group Ltd	4.38	1.20	3.18	6.66
M3 Inc	4.29	0.11	4.18	36.89
Softbank Group Corp	4.03	0.90	3.13	17.81
Alibaba Group Holding Ltd	3.61	0.00	3.61	0.63
L'Oreal S.A., Paris	3.18	0.81	2.37	8.57
Rolls Royce Holdings PLC	3.14	0.10	3.04	-2.01
Atlas Copco AB	3.10	0.29	2.81	3.28
% of Portfolio	41.10	4.02		

## Distribution of Market Capitalization (%)

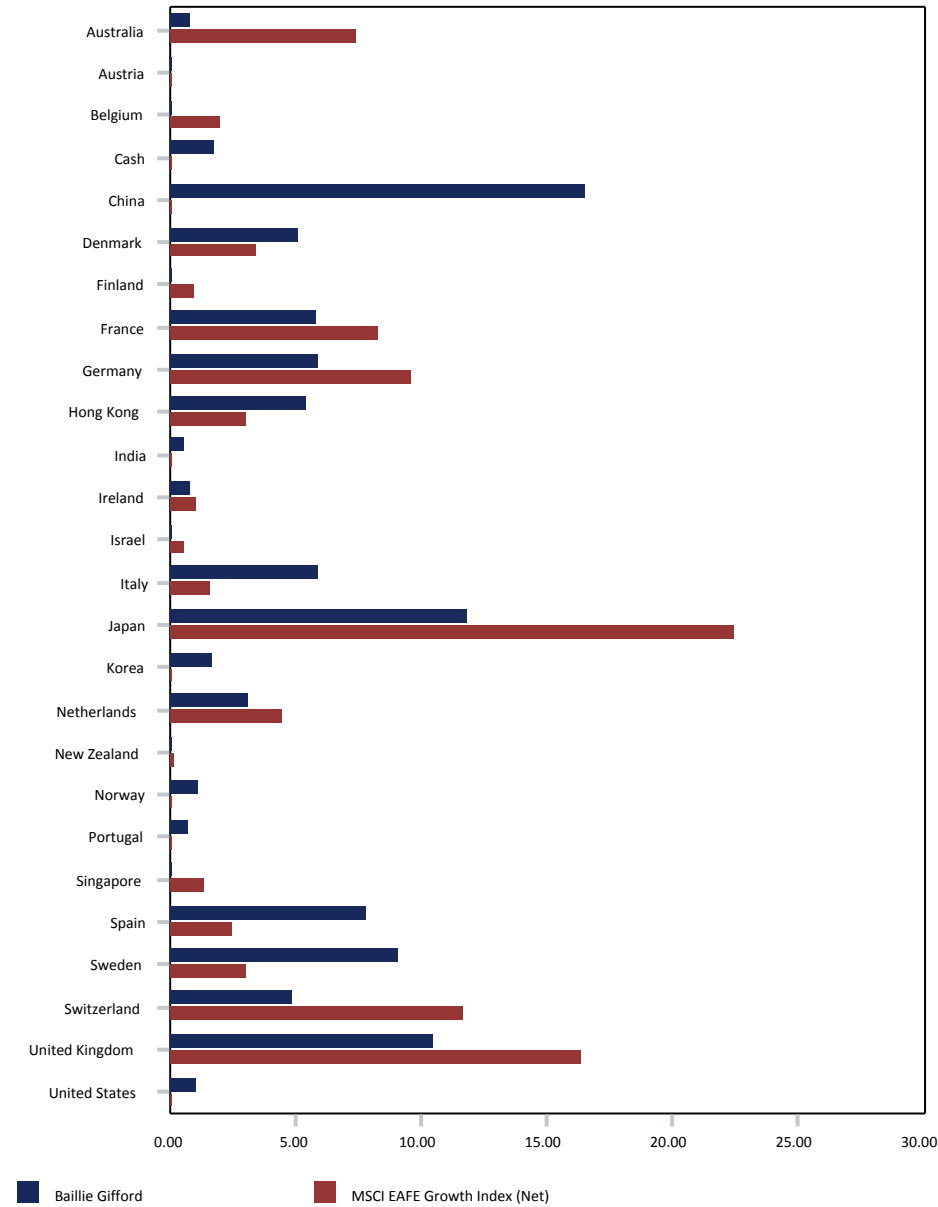


# City of Jacksonville Police & Fire Pension Fund

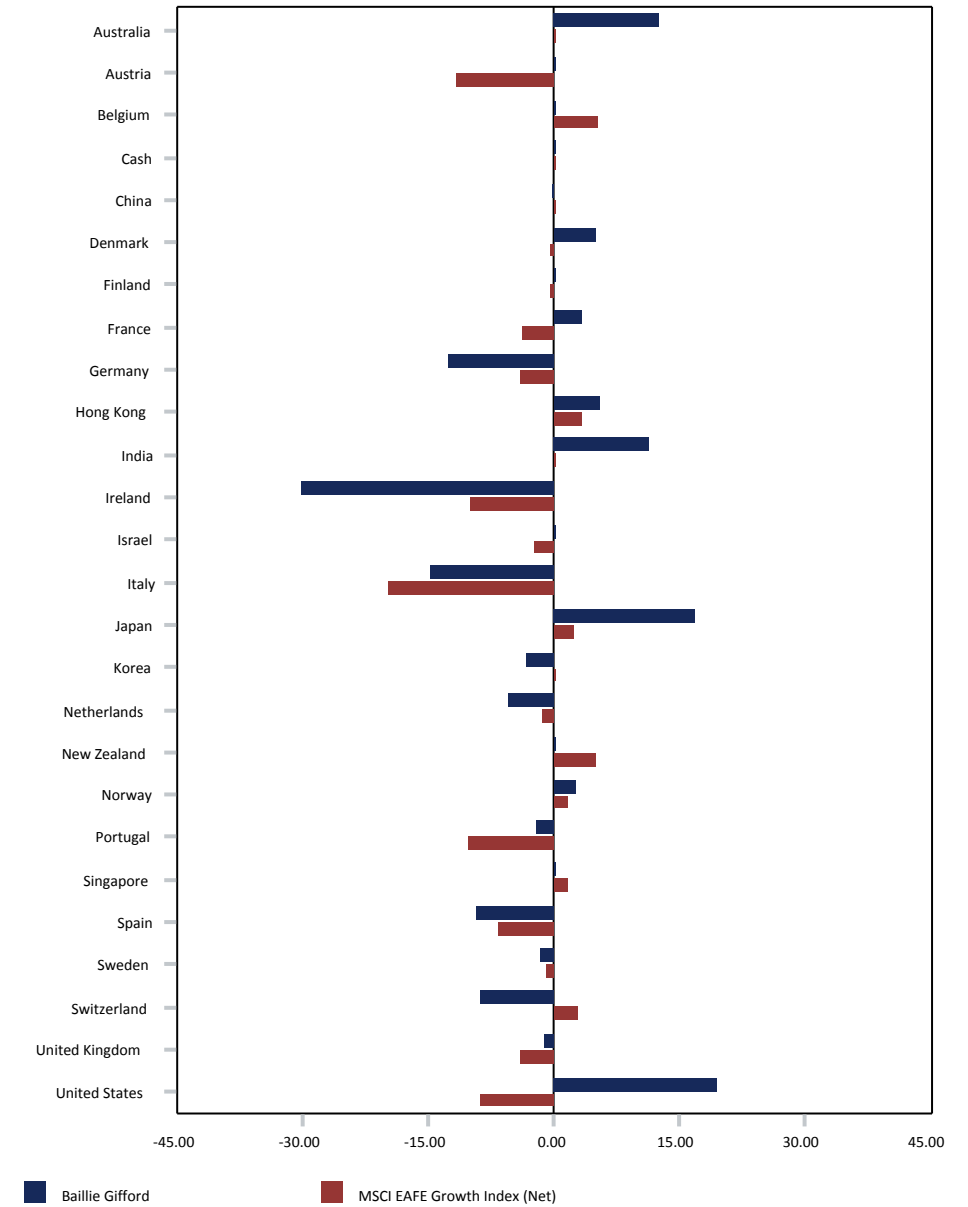
Baillie Gifford vs. MSCI EAFE Growth Index (Net)

June 30, 2016

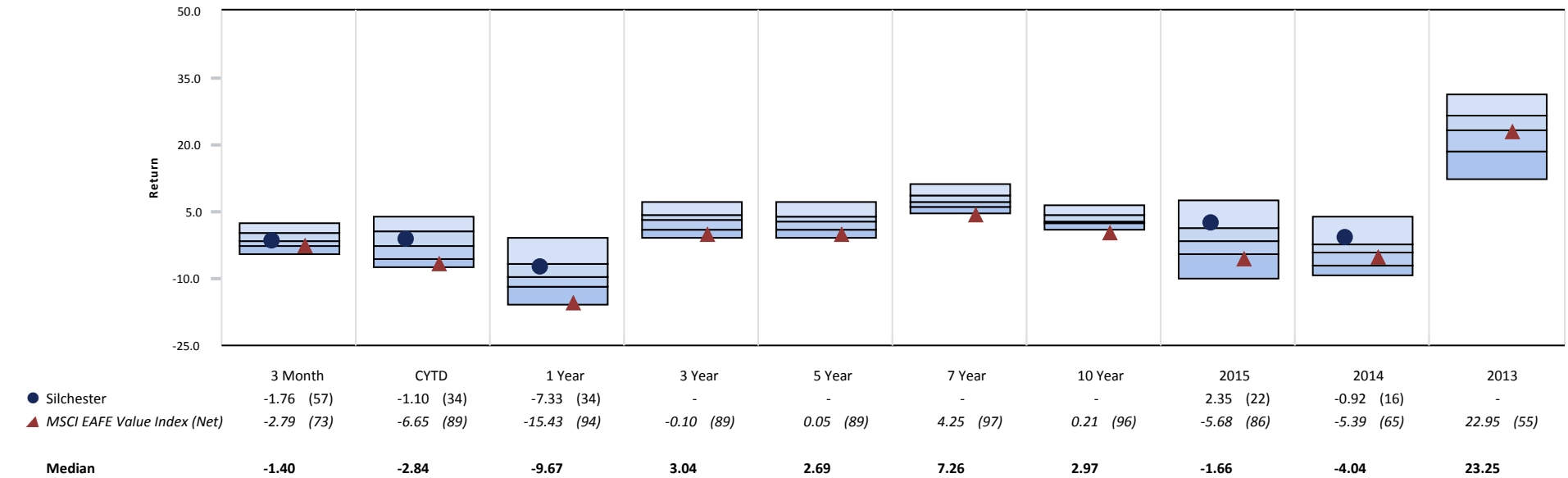
## Country Allocation



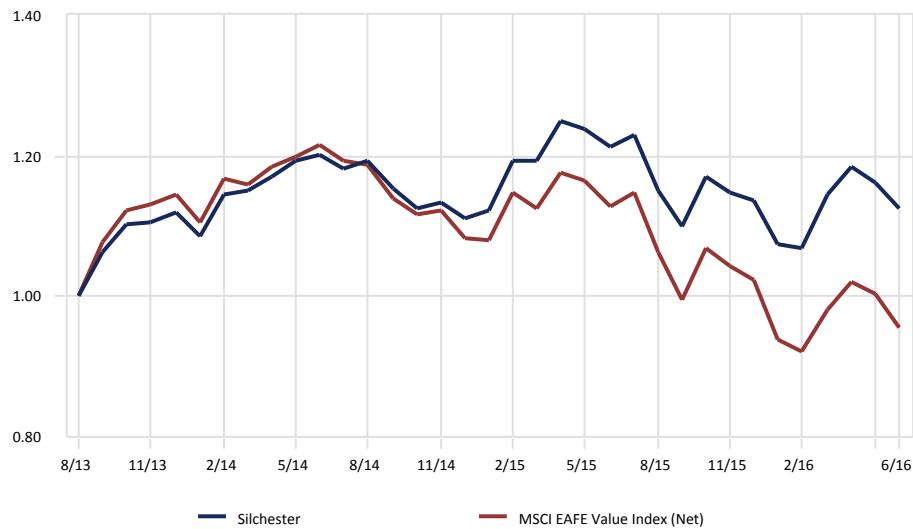
## Country Performance



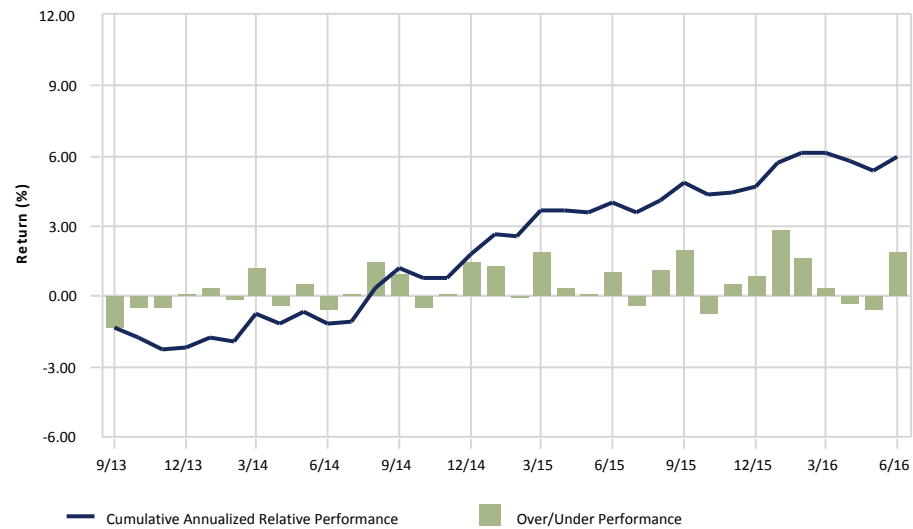
Peer Group Analysis - IM International Large Cap Value Equity (SA+CF)



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



Relative Performance vs. MSCI EAFE Value Index (Net)



gross of fees

# City of Jacksonville Police & Fire Pension Fund

Silchester vs. MSCI EAFE Value Index (Net)

June 30, 2016

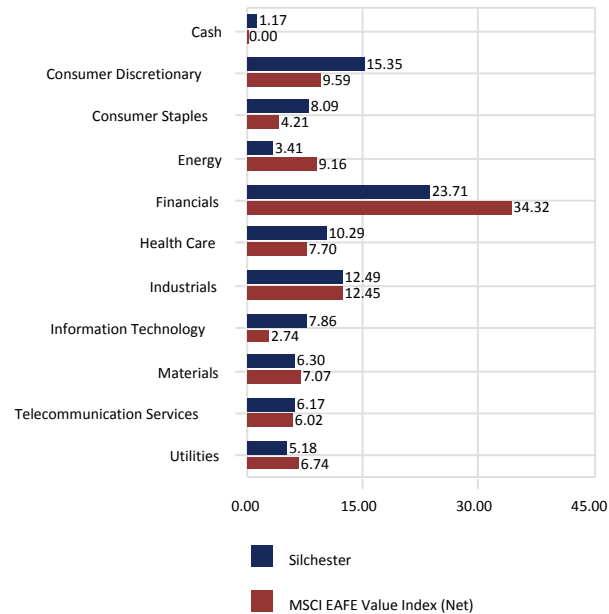
## Ten Best Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Futaba Corp	0.21	0.00	0.21	32.91
Genomma Lab Internacional SAB	0.20	0.00	0.20	30.30
Maruichi Steel Tube Ltd	0.58	0.03	0.55	26.20
Anglo American PLC	1.67	0.24	1.43	22.41
Vale SA	1.84	0.00	1.84	20.19
Kingboard Chemical Holdings Ltd	0.35	0.00	0.35	17.14
Sumitomo Bakelite Co Ltd	0.34	0.00	0.34	17.13
Fortum Corp	1.15	0.12	1.03	15.65
Royal Dutch Shell PLC	1.86	2.02	-0.16	14.87
Novartis AG	2.80	1.15	1.65	13.01
% of Portfolio	11.00	3.56		

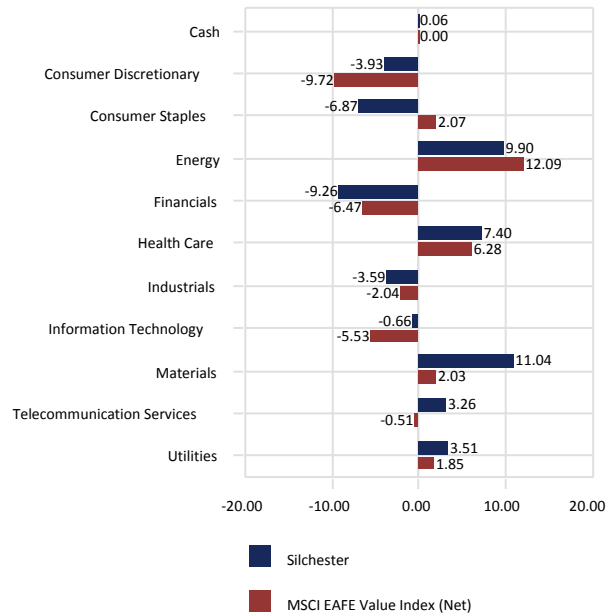
## Ten Worst Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
St.Ives PLC	0.02	0.00	0.02	-65.89
Banco Popular Espanol SA, Madrid	0.51	0.03	0.48	-45.31
Man Group PLC	0.65	0.00	0.65	-27.91
Hays PLC	0.07	0.00	0.07	-24.97
Public Power Corp S.A.	0.25	0.00	0.25	-23.94
Unione Di Banche Italiane S.p.A.	0.52	0.02	0.50	-23.35
Gam Holding Ltd	0.98	0.00	0.98	-23.02
Henderson Group PLC	0.14	0.00	0.14	-21.76
Credit Suisse Group	1.90	0.17	1.73	-21.63
Central Glass Co Ltd	0.17	0.00	0.17	-21.54
% of Portfolio	5.21	0.22		

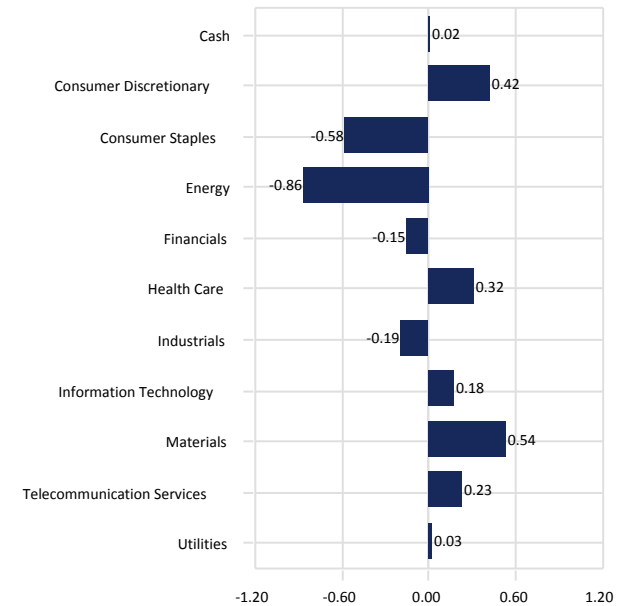
## Sector Allocation



## Sector Performance



## Total Sector Attribution



# City of Jacksonville Police & Fire Pension Fund

Silchester vs. MSCI EAFE Value Index (Net)

June 30, 2016

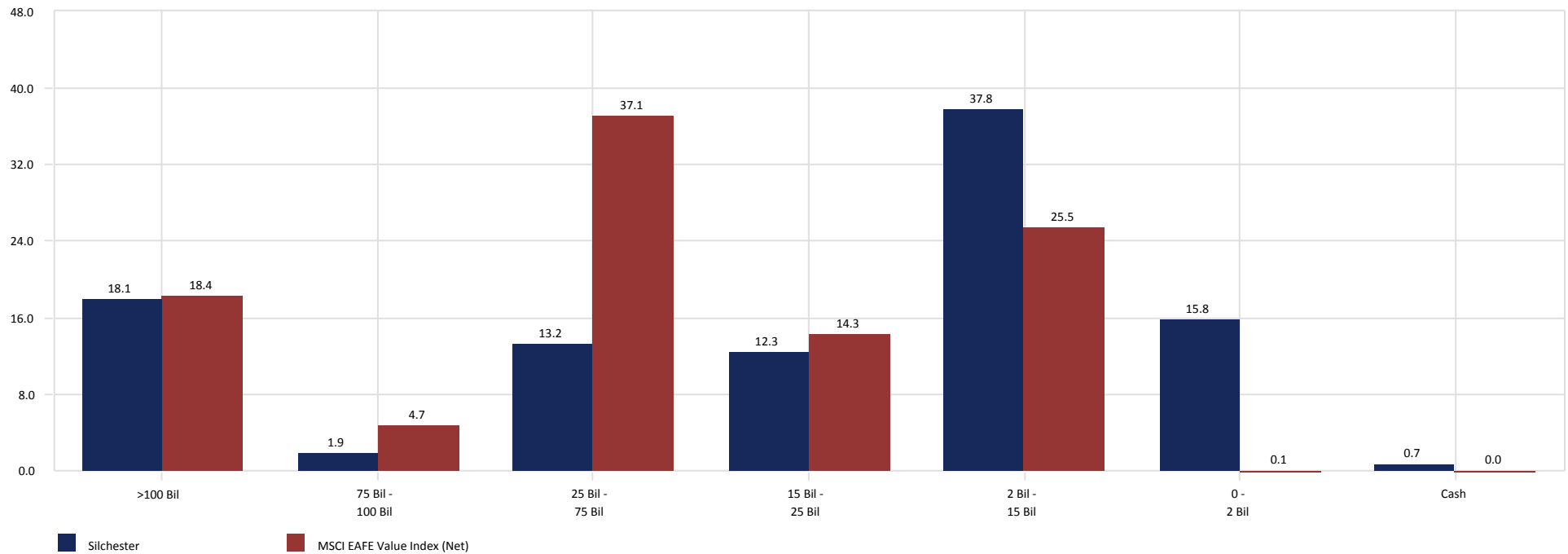
## Portfolio Characteristics

	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$000)	41,376,227	52,620,923
Median Mkt. Cap (\$000)	3,192,259	8,067,767
Price/Earnings ratio	12.97	12.22
Price/Book ratio	1.86	1.64
5 Yr. EPS Growth Rate (%)	-0.07	0.43
Current Yield (%)	4.12	4.70
Beta	-	1.00
Number of Stocks	142	507

## Top Ten Equity Holdings

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Sanofi	3.23	1.71	1.52	7.35
Glaxosmithkline PLC	3.11	1.83	1.28	7.04
Novartis AG	2.80	1.15	1.65	13.01
Henderson Land Development Co Ltd	2.49	0.00	2.49	2.79
Honda Motor Co Ltd	2.44	0.71	1.73	-8.17
BAE Systems PLC	2.19	0.39	1.80	-1.88
Total	1.91	1.86	0.05	7.08
Credit Suisse Group	1.90	0.17	1.73	-21.63
Royal Dutch Shell PLC	1.86	2.02	-0.16	14.87
Vale SA	1.84	0.00	1.84	20.19
% of Portfolio	23.77	9.84		

## Distribution of Market Capitalization (%)

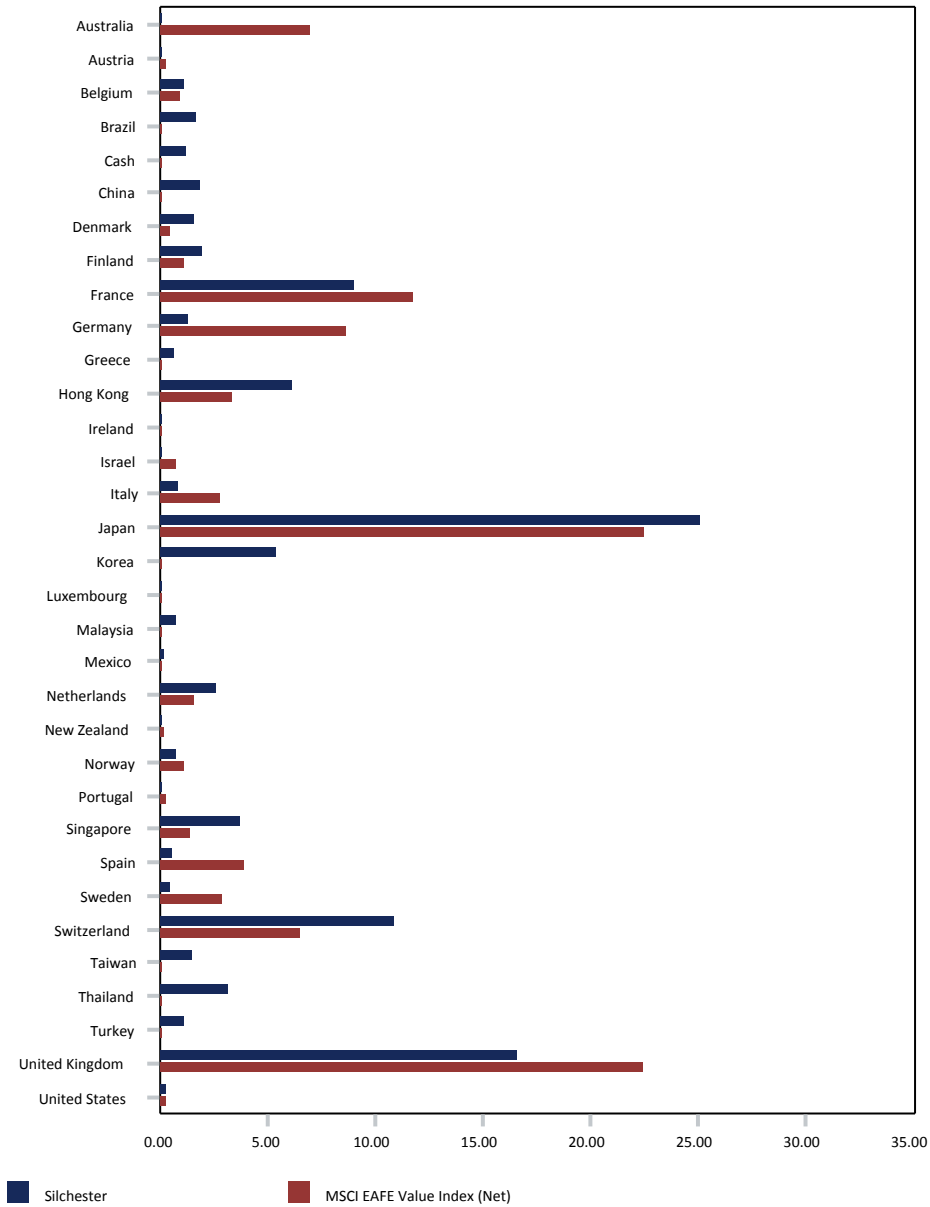


City of Jacksonville Police & Fire Pension Fund

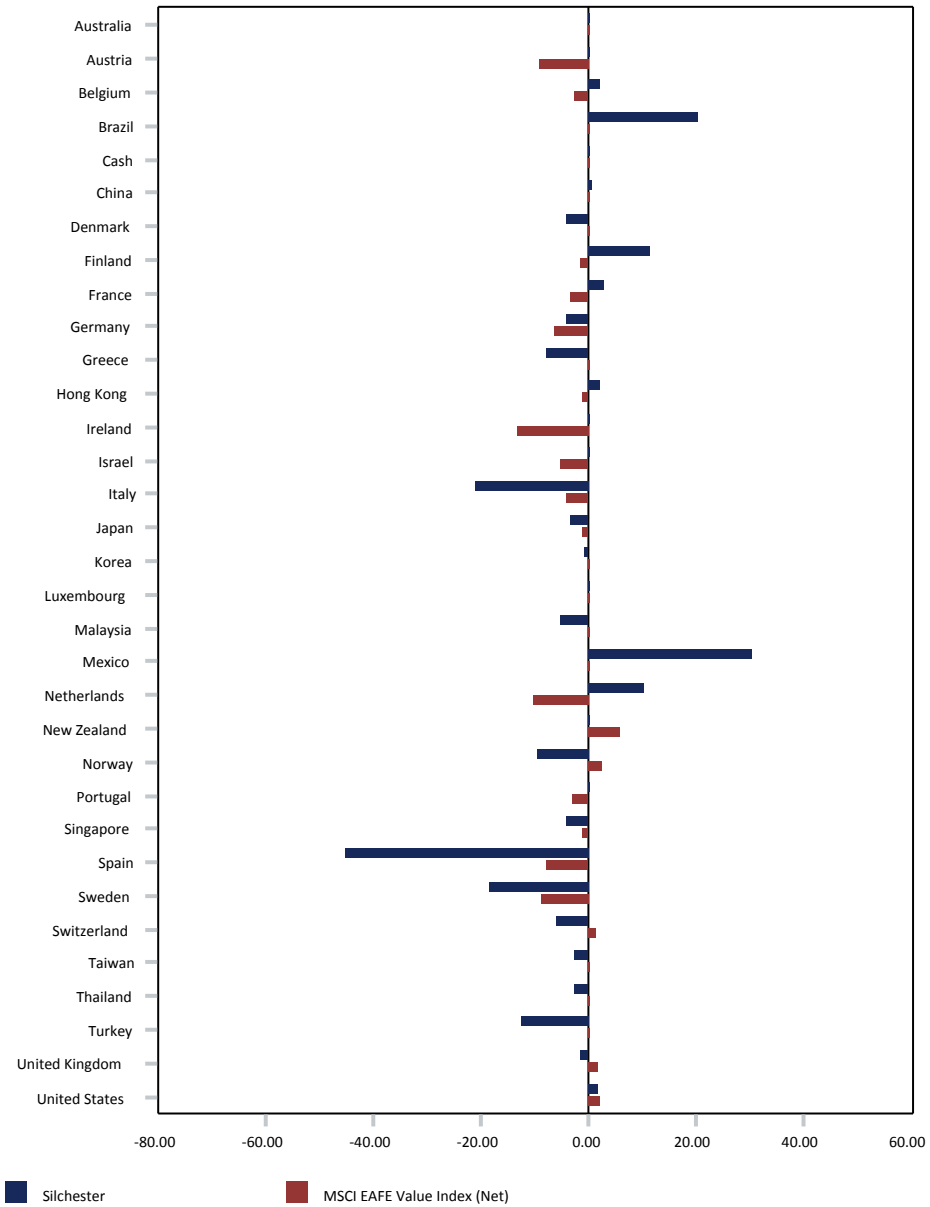
Silchester vs. MSCI EAFE Value Index (Net)

June 30, 2016

Country Allocation



Country Performance



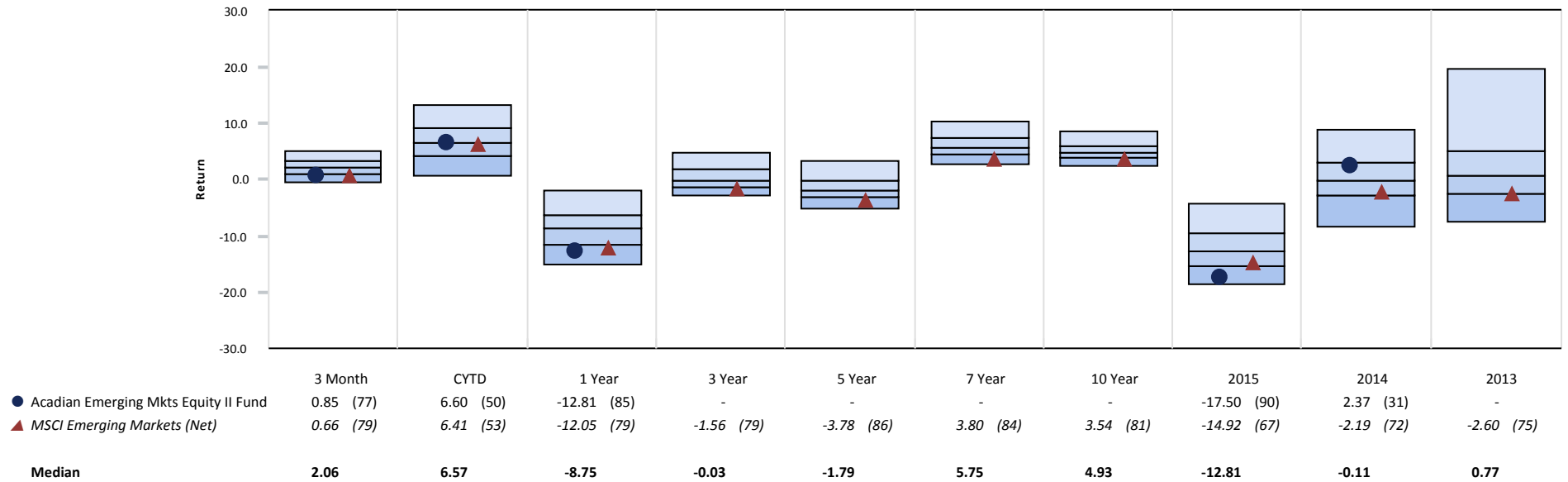


# City of Jacksonville Police & Fire Pension Fund

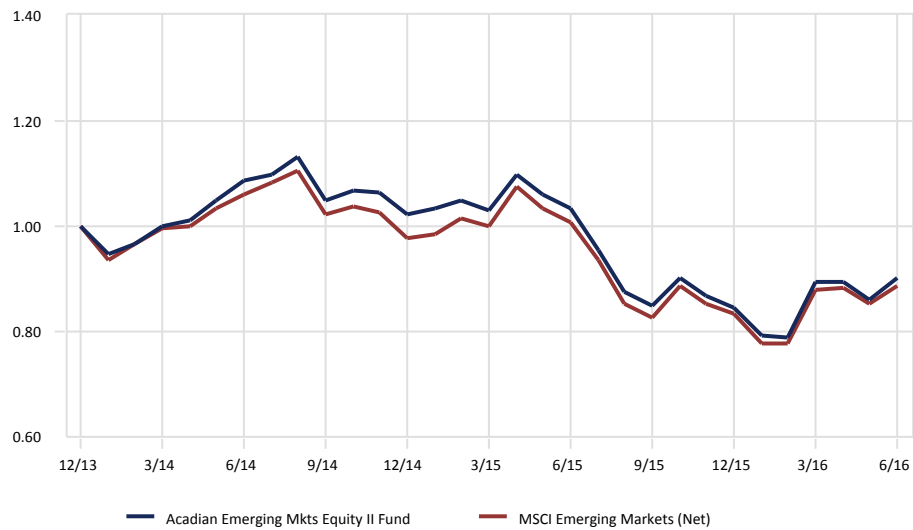
Acadian Emerging Mkts Equity II Fund

June 30, 2016

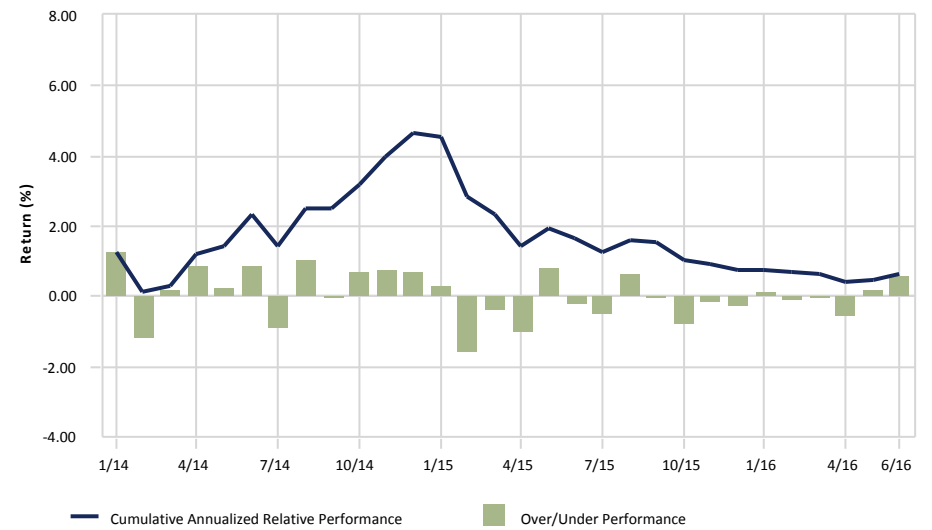
## Peer Group Analysis - IM Emerging Markets Equity (SA+CF)



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



## Relative Performance vs. MSCI Emerging Markets (Net)



gross of fees

# City of Jacksonville Police & Fire Pension Fund

## Acadian Emerging Mkts vs. MSCI Emerging Markets (Net)

June 30, 2016

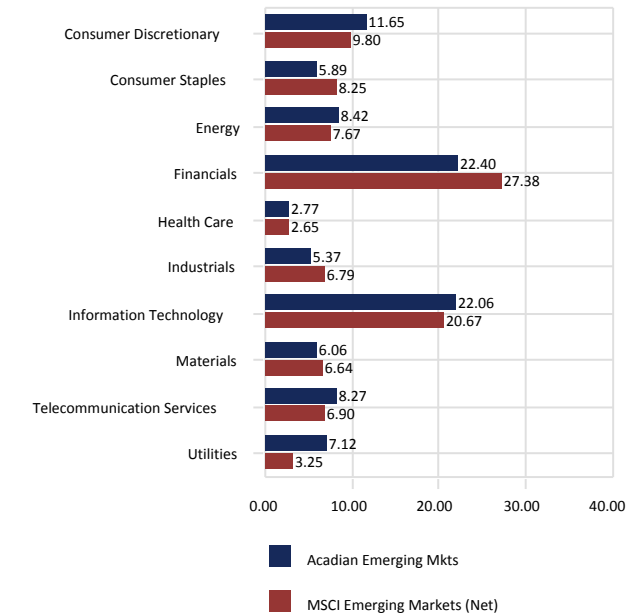
### Ten Best Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Centrais Eletricas Brasileiras Sa-Eletronbras	0.04	0.03	0.01	85.62
CIA Saneamento Minasgerais	0.02	0.00	0.02	79.55
Weibo Corp	0.03	0.00	0.03	58.27
Future Enterprises Ltd	0.00	0.00	0.00	50.27
Smiles SA	0.39	0.00	0.39	49.77
Charoen Pokphand Enterprises Co Ltd	0.03	0.00	0.03	49.28
Qualicorp SA	0.04	0.03	0.01	46.39
Polymetal International Plc	0.05	0.00	0.05	45.28
Yandex NV	0.08	0.00	0.08	42.62
China Maple Leaf Educational Systems Ltd	0.01	0.00	0.01	42.46
% of Portfolio	0.69	0.06		

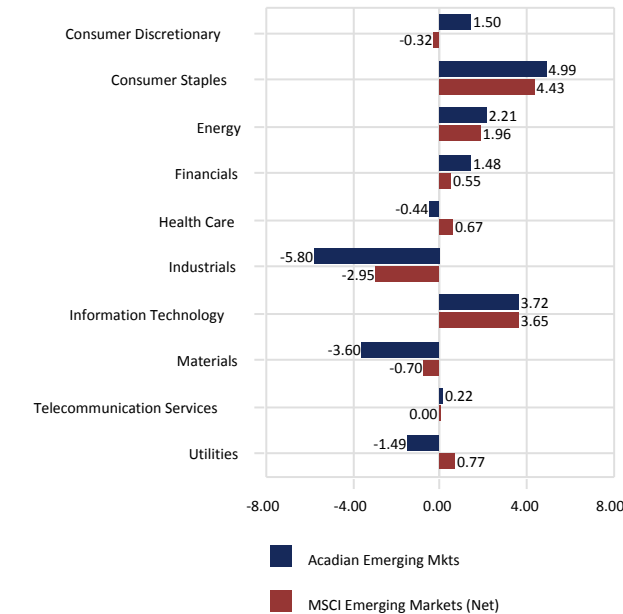
### Ten Worst Performers

	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Universal Health International Group Ltd	0.02	0.00	0.02	-47.65
Rajesh Exports Ltd	0.02	0.00	0.02	-31.64
Axtel SA DE CV	0.02	0.00	0.02	-31.32
Koza Altin Islemeleri AS	0.01	0.00	0.01	-30.96
China Distance Education Holdings Ltd	0.01	0.00	0.01	-29.76
Turk Hava Yollari Ao	0.02	0.03	-0.01	-28.05
Aegean Marine Petroleum Network Inc	0.01	0.00	0.01	-27.12
Kiza Anadolu Metal Madencilik Isletmeleri AS	0.02	0.00	0.02	-26.31
Jubilant Life Sciences Ltd	0.06	0.00	0.06	-26.03
OHL Mexico SAB De CV	0.07	0.03	0.04	-24.23
% of Portfolio	0.26	0.06		

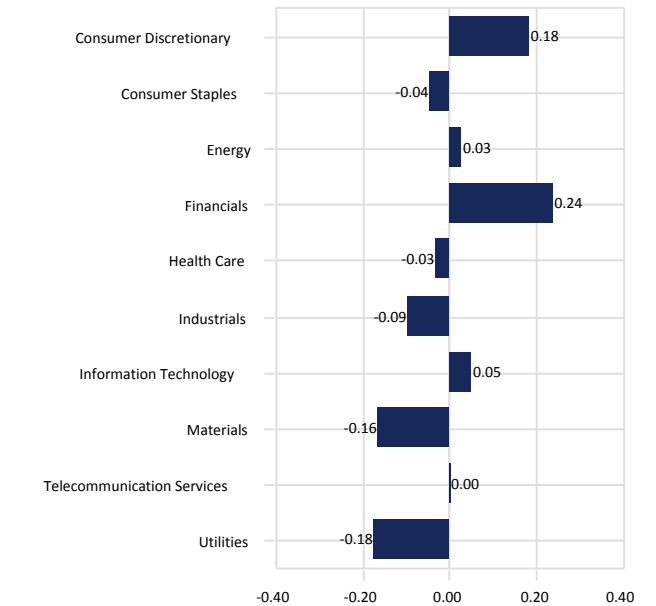
### Sector Allocation



### Sector Performance



### Total Sector Attribution



# City of Jacksonville Police & Fire Pension Fund

## Acadian Emerging Mkts vs. MSCI Emerging Markets (Net)

June 30, 2016

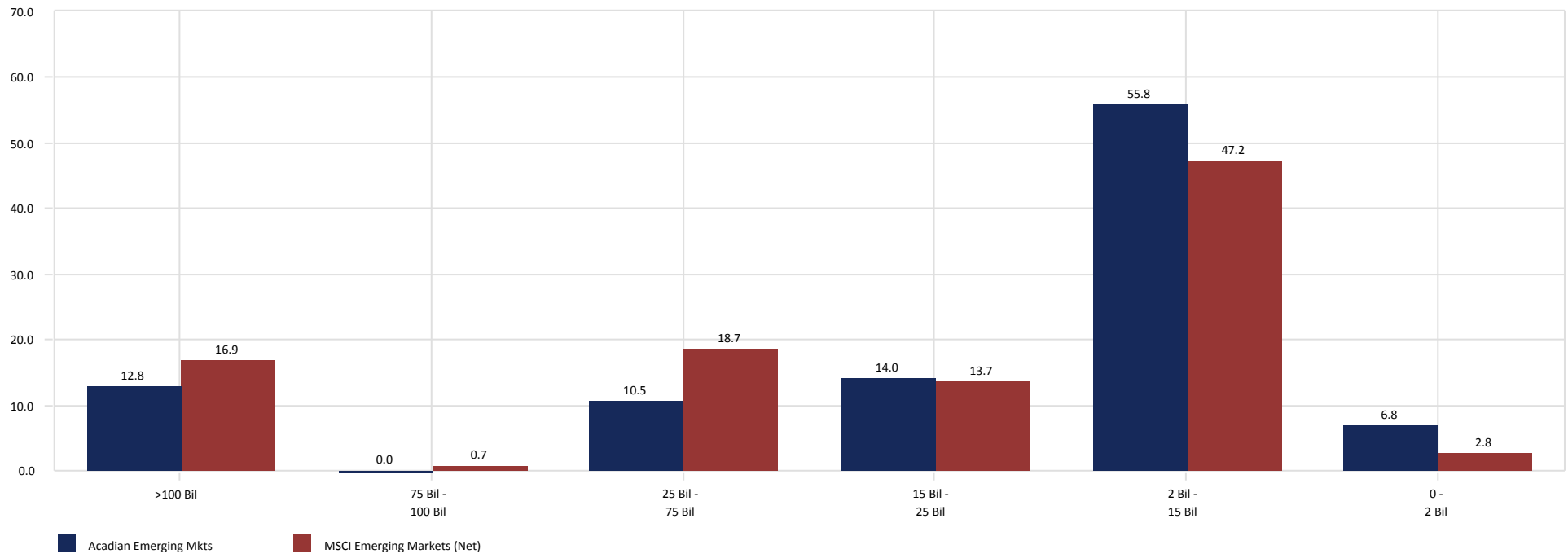
### Portfolio Characteristics

	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$000)	32,674,569	45,553,166
Median Mkt. Cap (\$000)	3,336,382	4,992,514
Price/Earnings ratio	9.65	12.25
Price/Book ratio	1.73	2.29
5 Yr. EPS Growth Rate (%)	5.51	9.46
Current Yield (%)	3.33	2.85
Beta	-	1.00
Number of Stocks	362	836

### Top Ten Equity Holdings

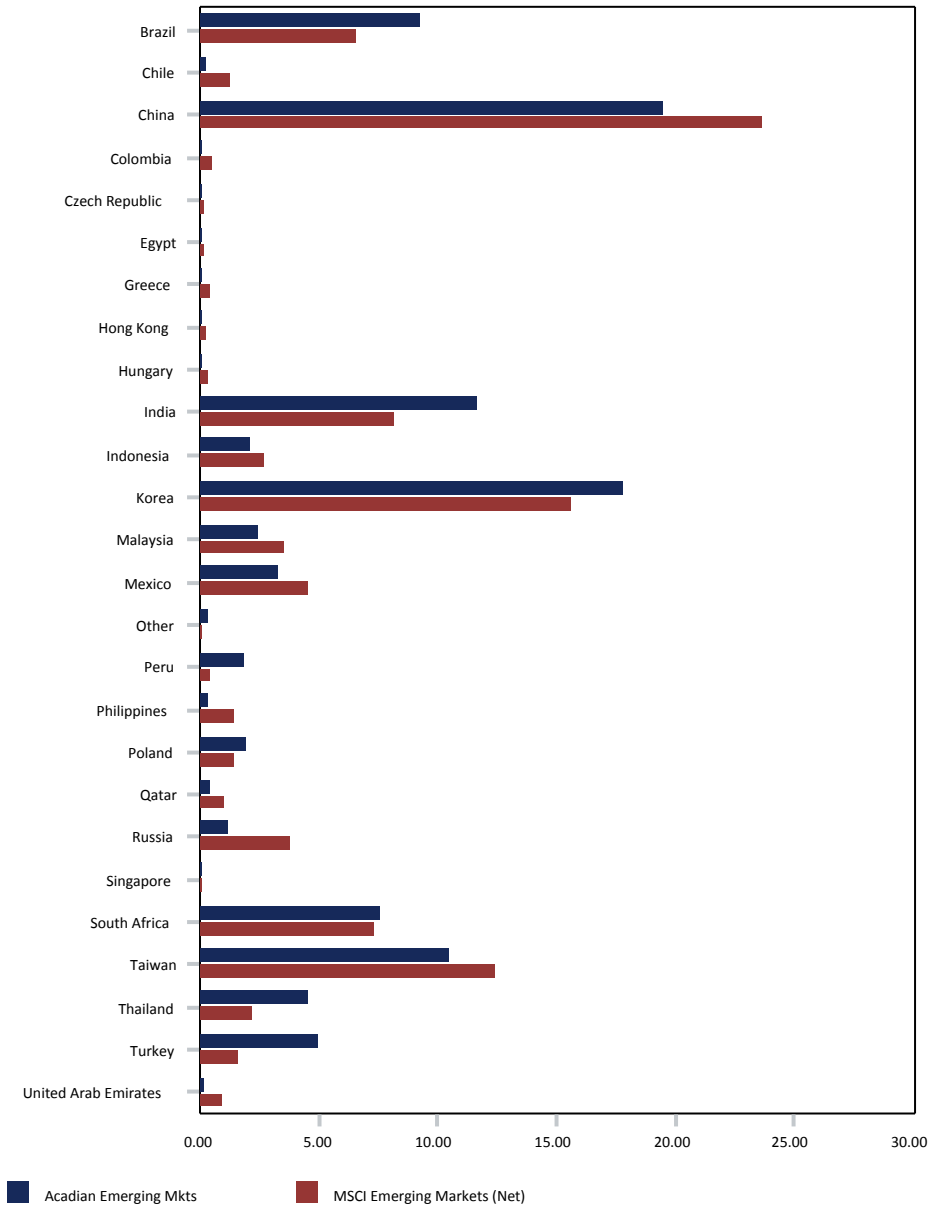
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Samsung Electronics Co Ltd	5.92	3.35	2.57	7.87
Hon Hai Precision Industry Co Ltd	2.53	0.96	1.57	-3.05
Bank of China Ltd	2.27	0.84	1.43	2.66
Tenaga Nasional Berhad	2.18	0.32	1.86	-1.60
China Mobile Ltd	2.01	1.87	0.14	3.91
Credicorp Ltd	1.97	0.28	1.69	19.74
Netease Inc	1.82	0.41	1.41	35.17
China Construction Bank Corp	1.61	1.48	0.13	10.15
New Oriental Education & Technology Group Inc	1.60	0.15	1.45	21.08
Kia Motors Corp	1.59	0.26	1.33	-11.23
% of Portfolio	23.50	9.92		

### Distribution of Market Capitalization (%)

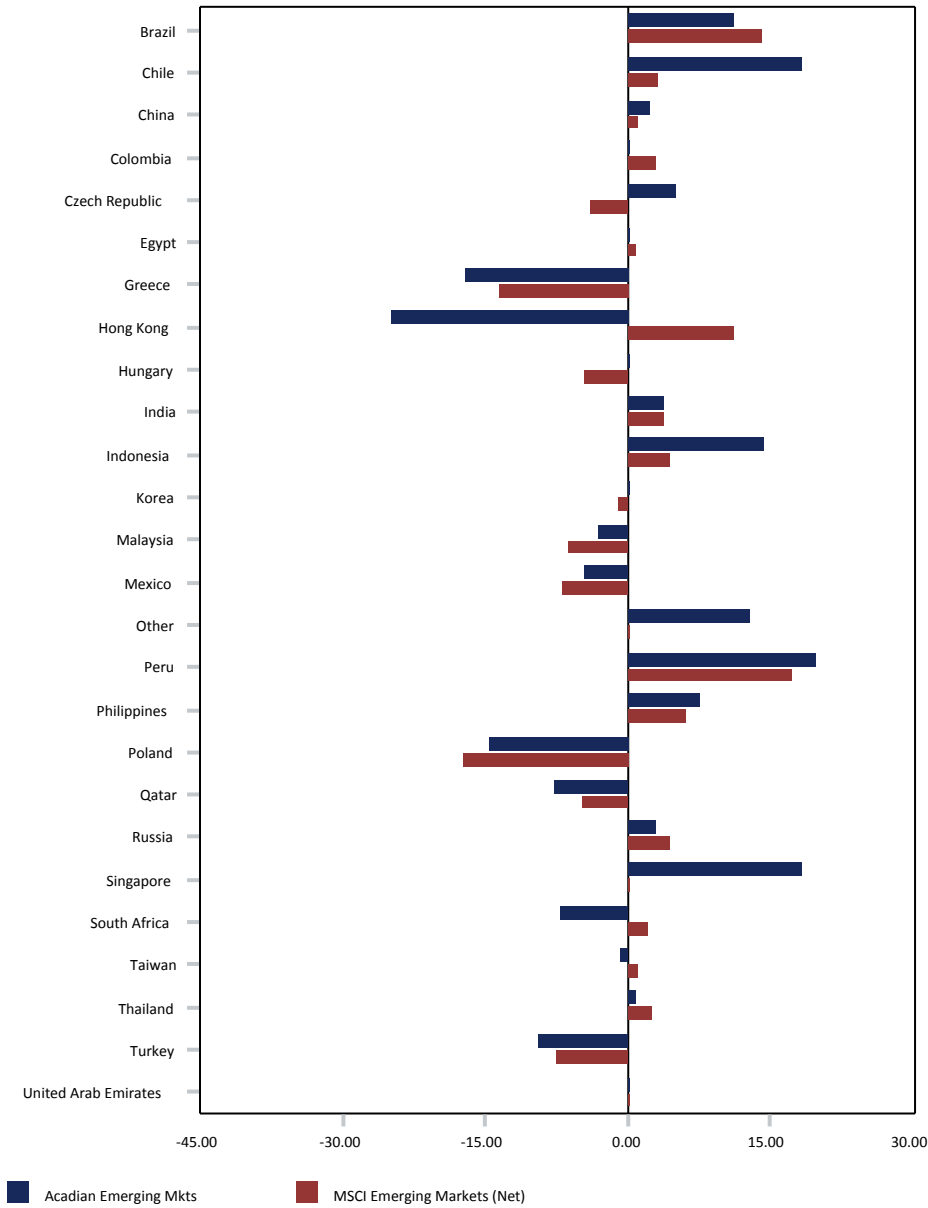


**City of Jacksonville Police & Fire Pension Fund**  
 Acadian Emerging Mkts vs. MSCI Emerging Markets (Net)  
 June 30, 2016

Country Allocation



Country Performance



## Fixed Income

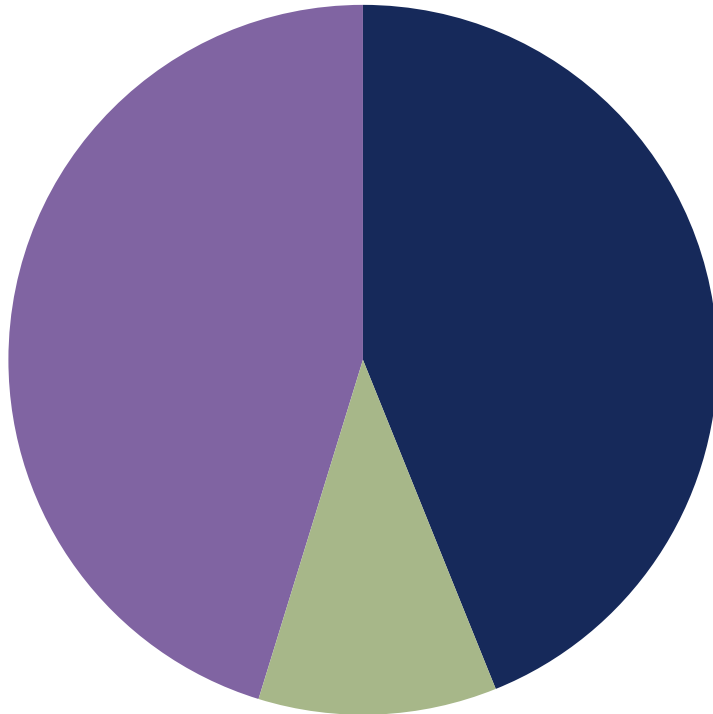
# City of Jacksonville Police & Fire Pension Fund

Fixed Income

June 30, 2016

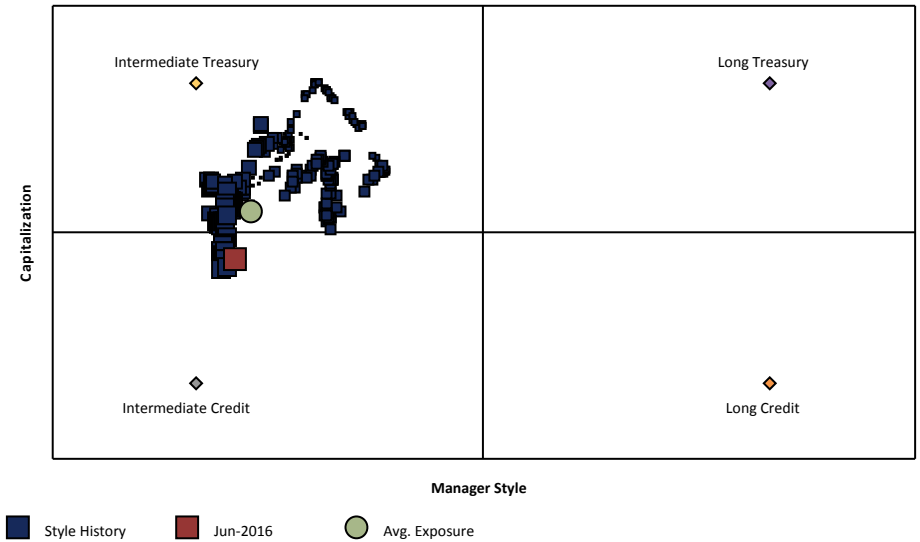
## Manager Allocation

June 30, 2016 : \$368,229,746

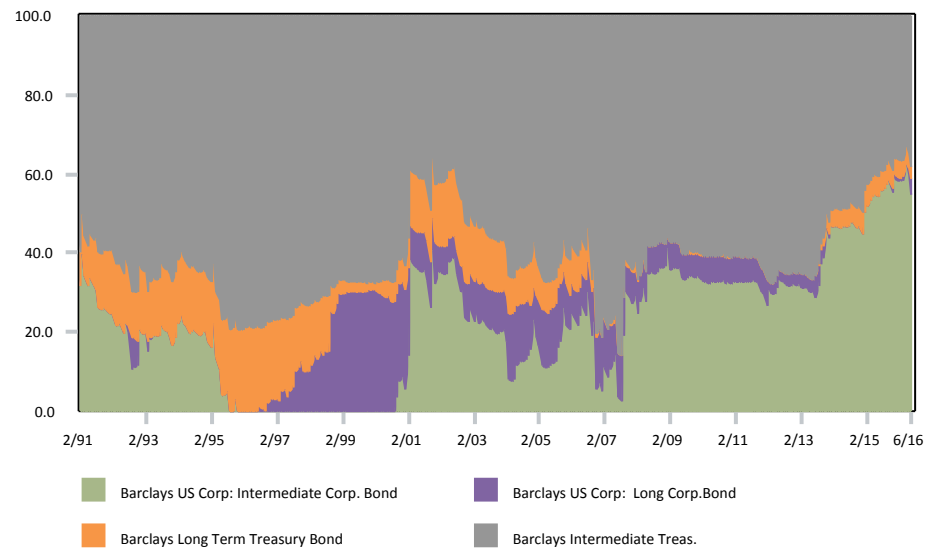


	Market Value (\$)	Allocation (%)
Thompson Siegel Fixed	161,627,113	43.89
NTGI TIPS	415	0.00
Eaton Vance Instl Senior Loan Trust	40,012,678	10.87
NTGI Aggregate Bond Index	166,589,541	45.24

## Style Analysis - Returns Based



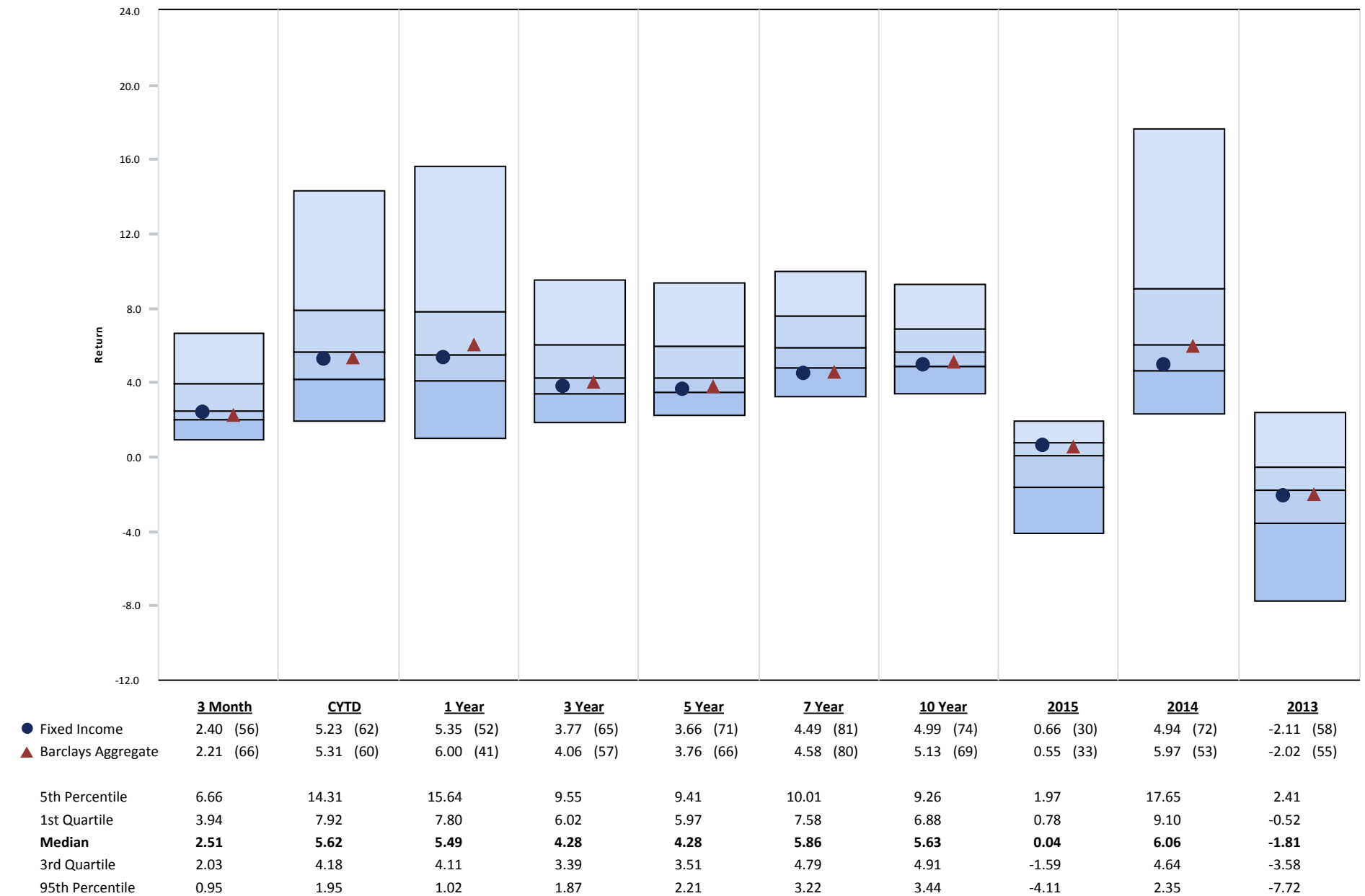
## 3 Year Style Analysis



# City of Jacksonville Police & Fire Pension Fund

All Master Trust-US Fixed Income Segment

June 30, 2016



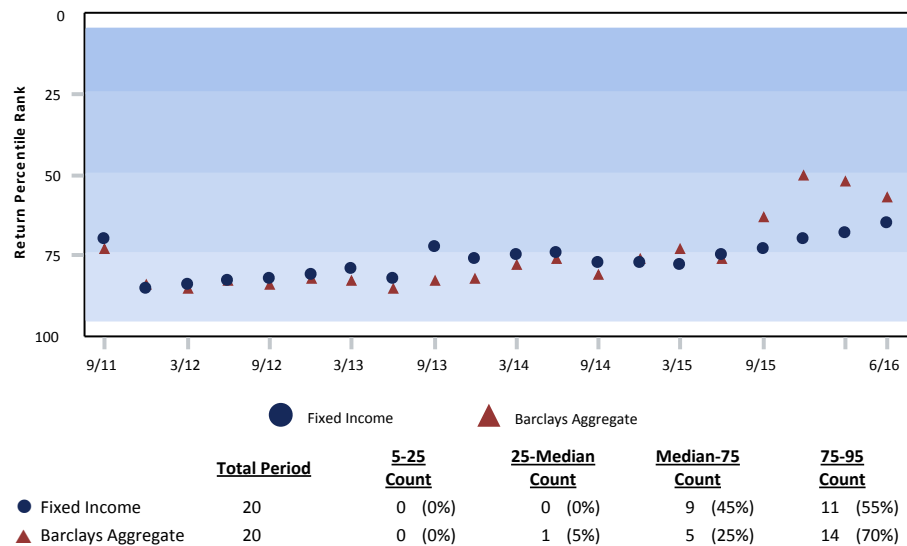
Parentheses contain percentile rankings.

# City of Jacksonville Police & Fire Pension Fund

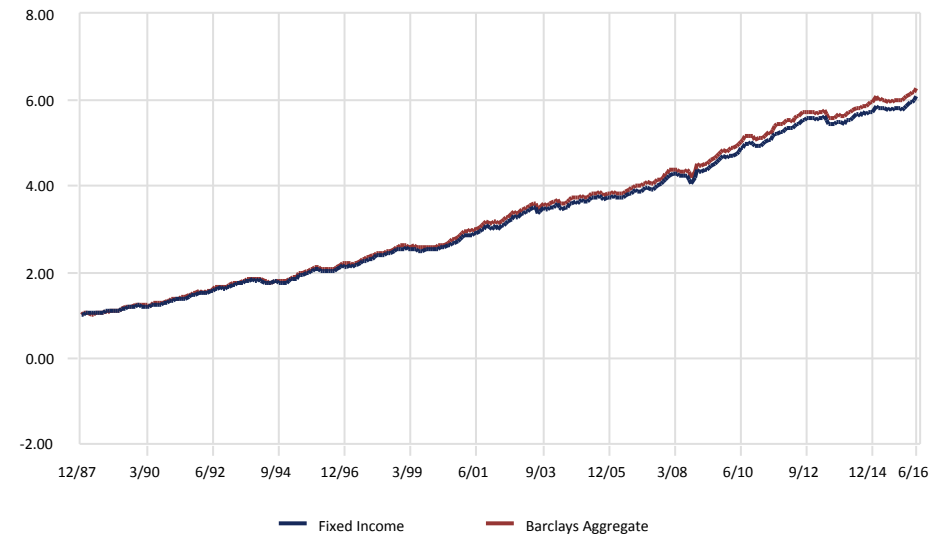
Fixed Income

June 30, 2016

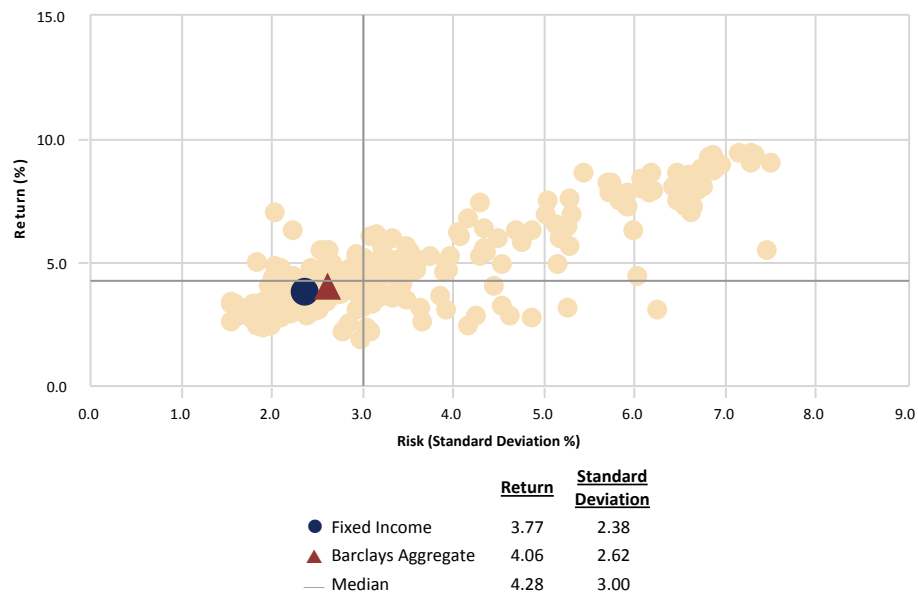
## 3 Year Rolling Return Rank



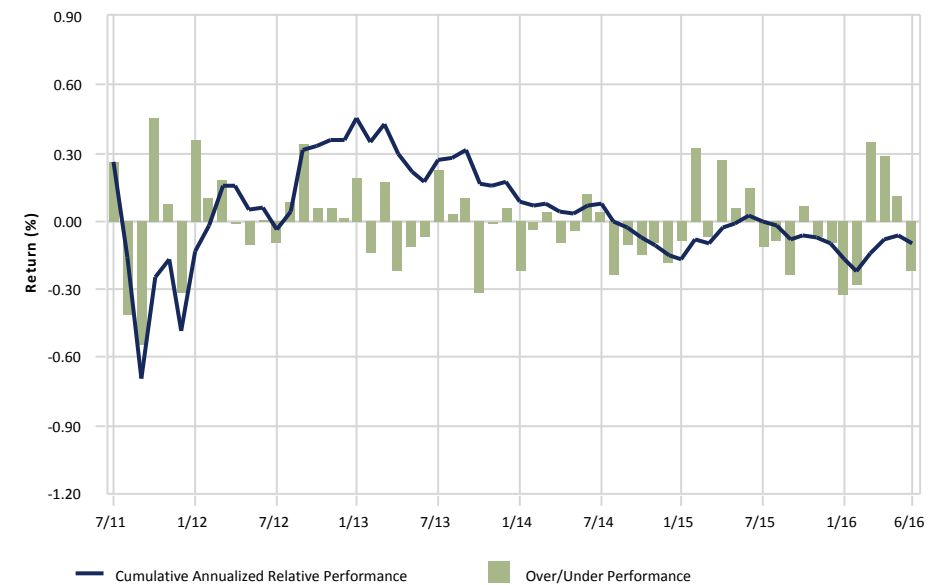
## Growth of \$1 - Since Inception (01/01/88)



## Risk vs. Return (07/01/13 - 06/30/16)



## Relative Performance vs. Barclays Aggregate

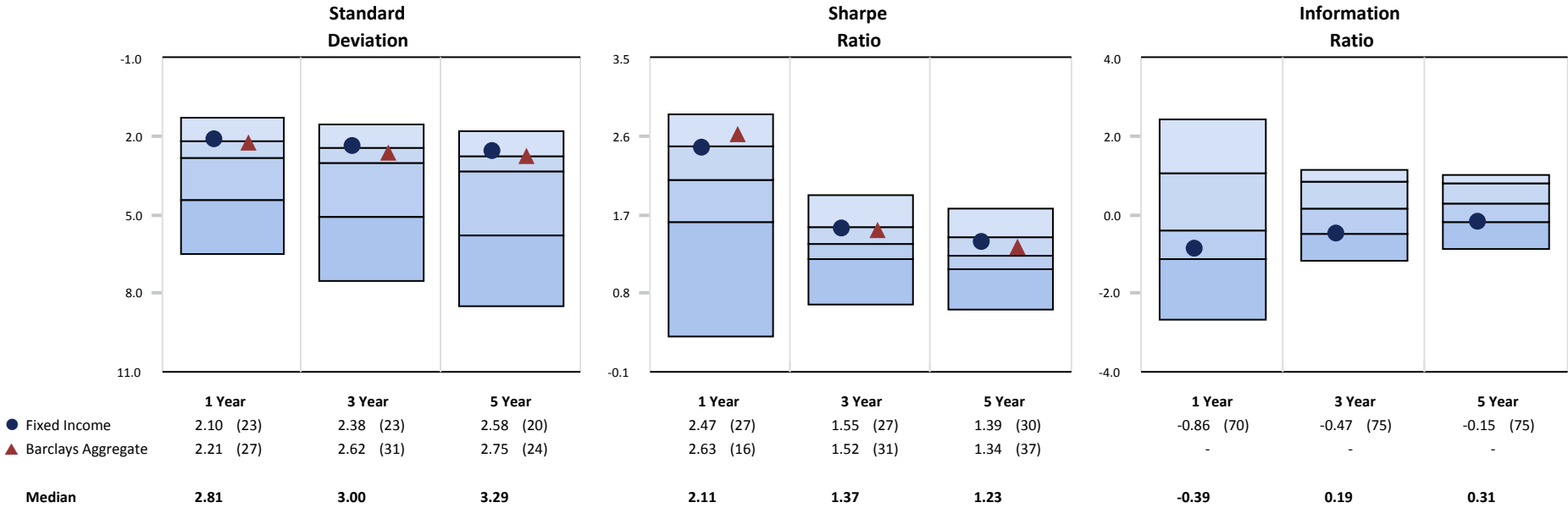




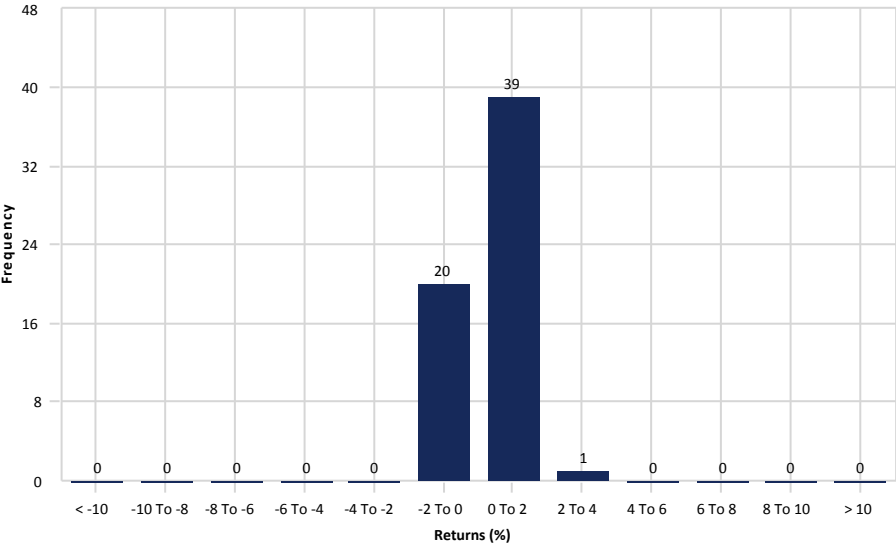
City of Jacksonville Police & Fire Pension Fund

Fixed Income  
June 30, 2016

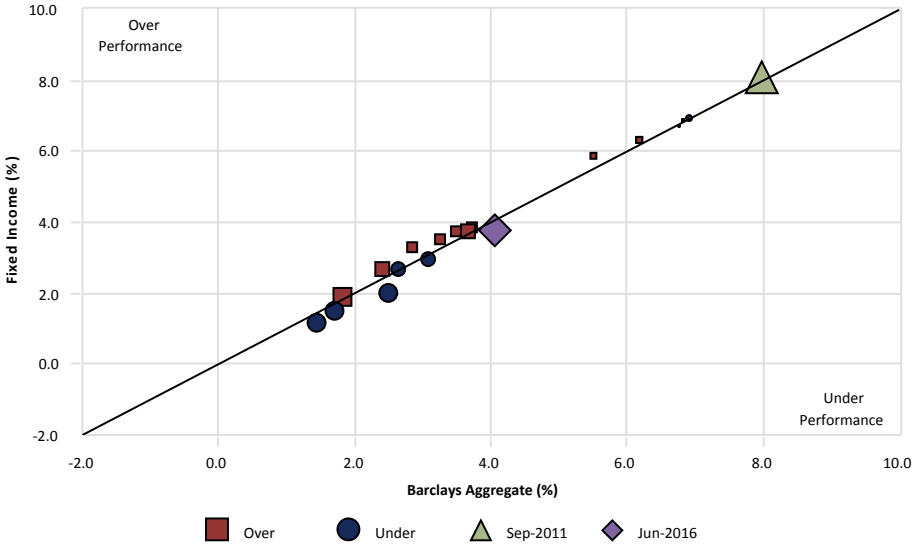
Peer Group Analysis: All Master Trust-US Fixed Income Segment



Monthly Distribution of Returns



3 Year Rolling Under/Over Performance

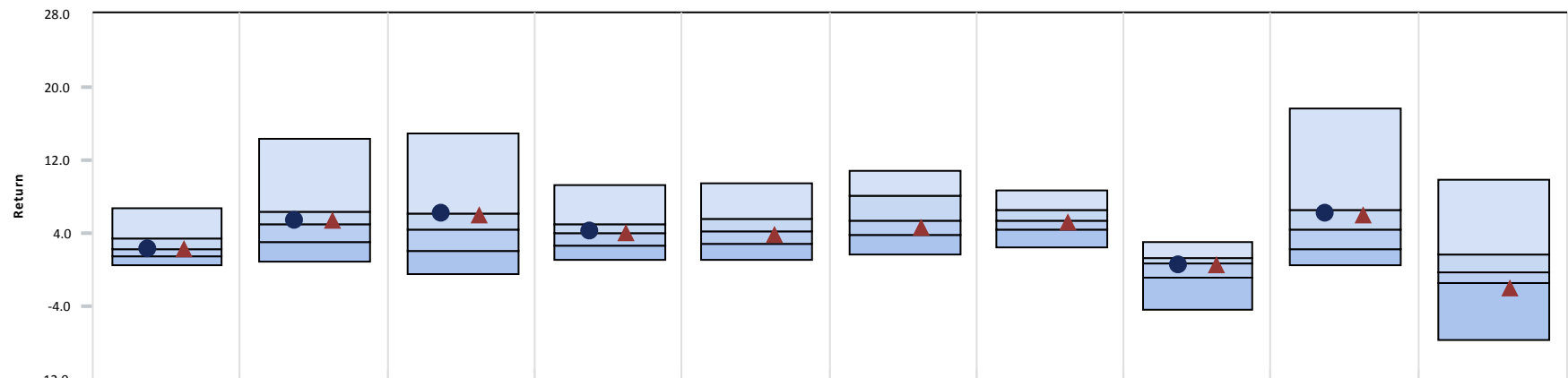


# City of Jacksonville Police & Fire Pension Fund

NTGI Aggregate Bond Index

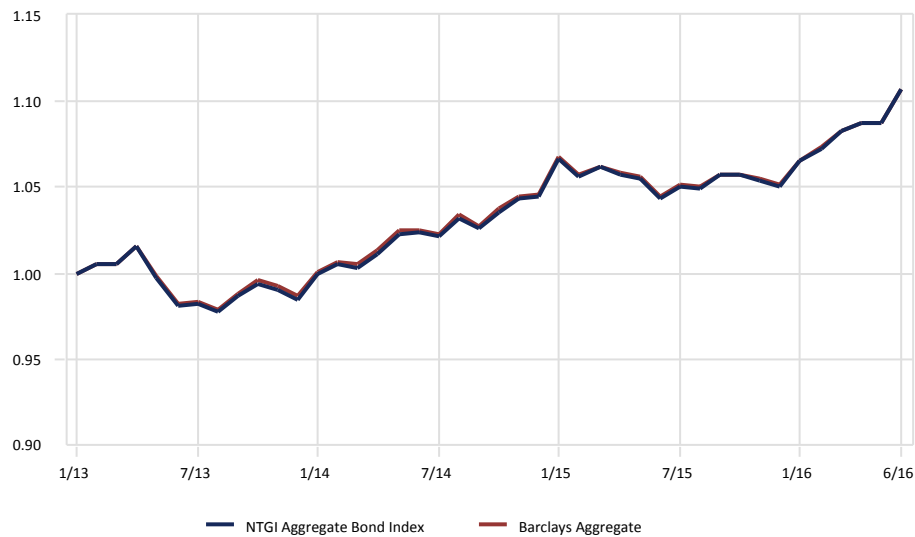
June 30, 2016

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

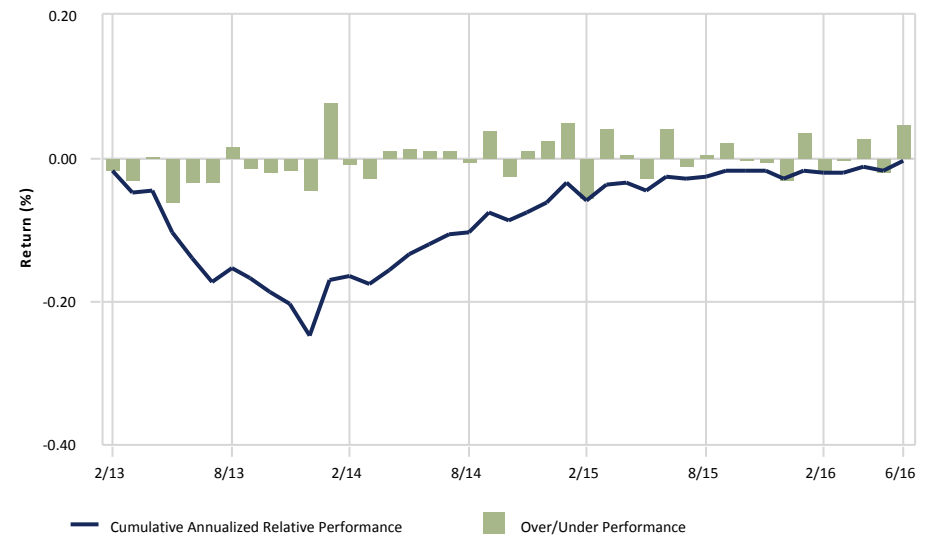


	3 Month	CYTD	1 Year	3 Year	5 Year	7 Year	10 Year	2015	2014	2013
● NTGI Aggregate Bond Index	2.27 (51)	5.39 (42)	6.06 (27)	4.11 (49)	-	-	-	0.58 (55)	6.11 (34)	-
▲ Barclays Aggregate	2.21 (53)	5.31 (44)	6.00 (28)	4.06 (50)	3.76 (62)	4.58 (64)	5.13 (59)	0.55 (56)	5.97 (36)	-2.02 (82)
Median	2.28	4.92	4.39	4.05	4.23	5.46	5.42	0.72	4.40	-0.21

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



## Relative Performance vs. Barclays Aggregate



gross of fees

# City of Jacksonville Police & Fire Pension Fund

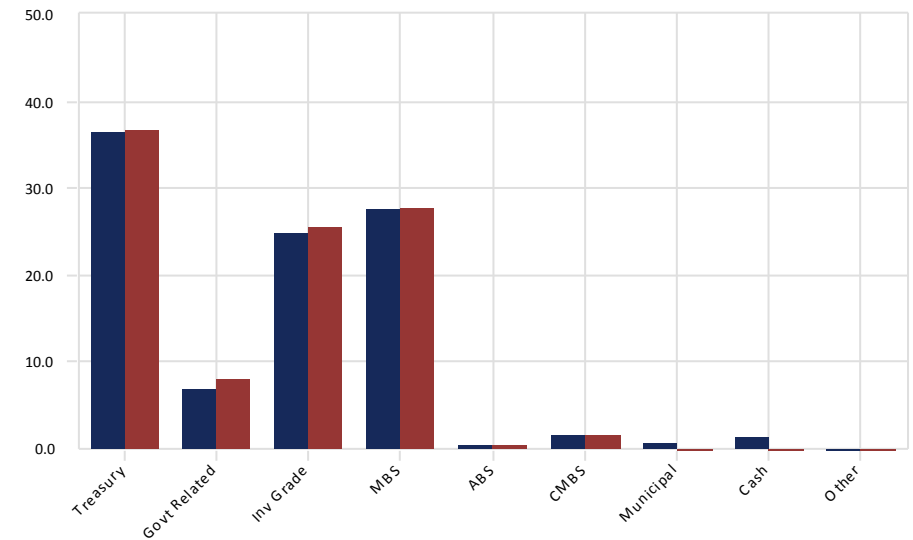
NTGI Aggregate Bond Index vs. Barclays Aggregate

June 30, 2016

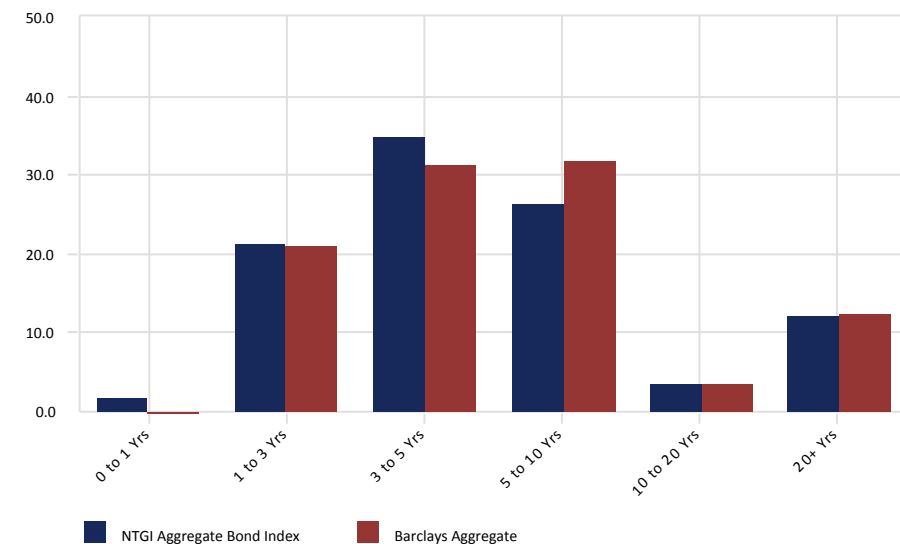
## Portfolio Characteristics

	<u>Portfolio</u>	<u>Benchmark</u>
Avg. Maturity	7.44	7.77
Avg. Quality	AA	AA1/AA2
Coupon Rate (%)	3.15	3.13
Modified Duration	5.29	5.47

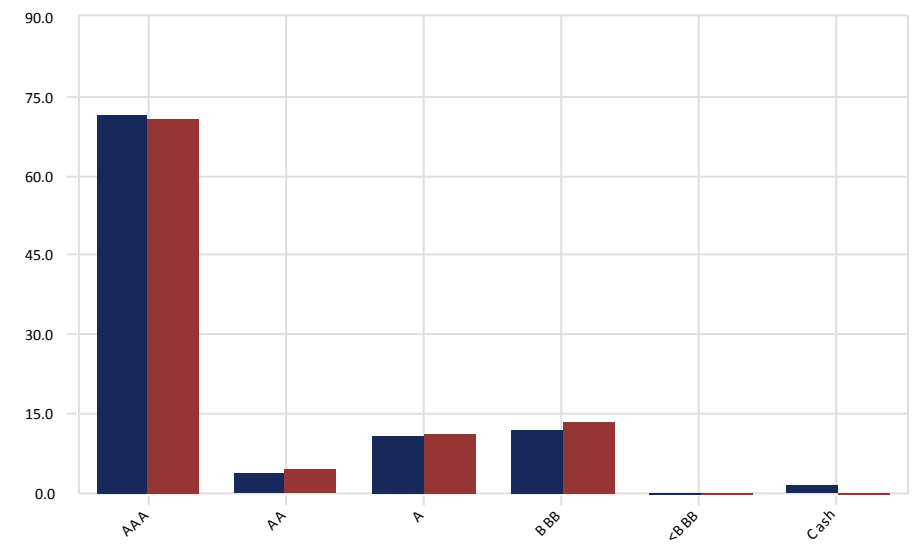
## Sector Distribution (%)



## Maturity Distribution (%)



## Credit Quality Distribution (%)

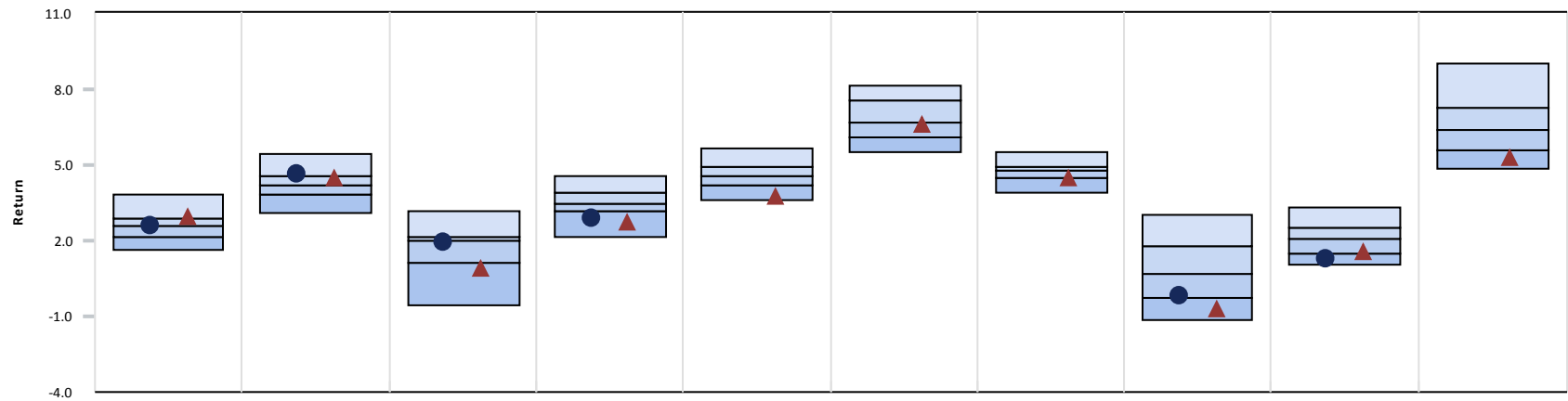


# City of Jacksonville Police & Fire Pension Fund

Eaton Vance Instl Senior Loan Trust

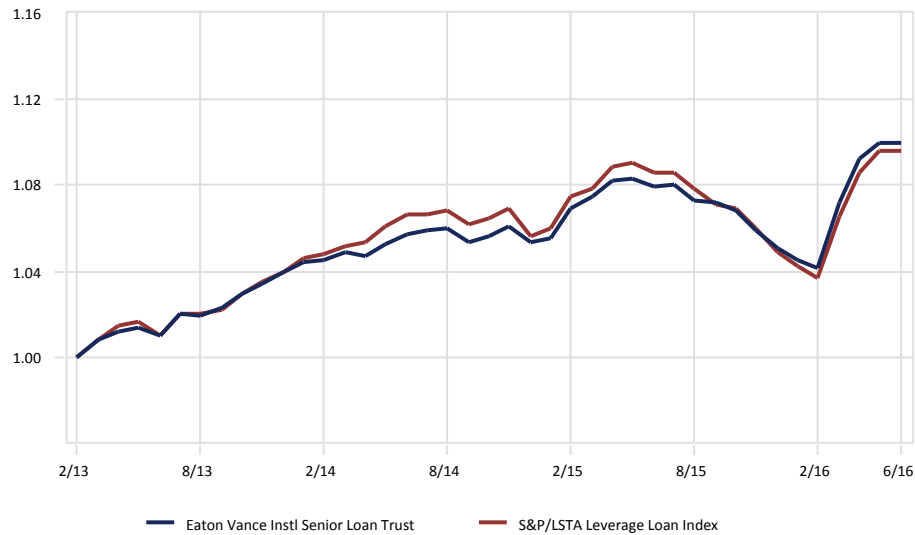
June 30, 2016

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

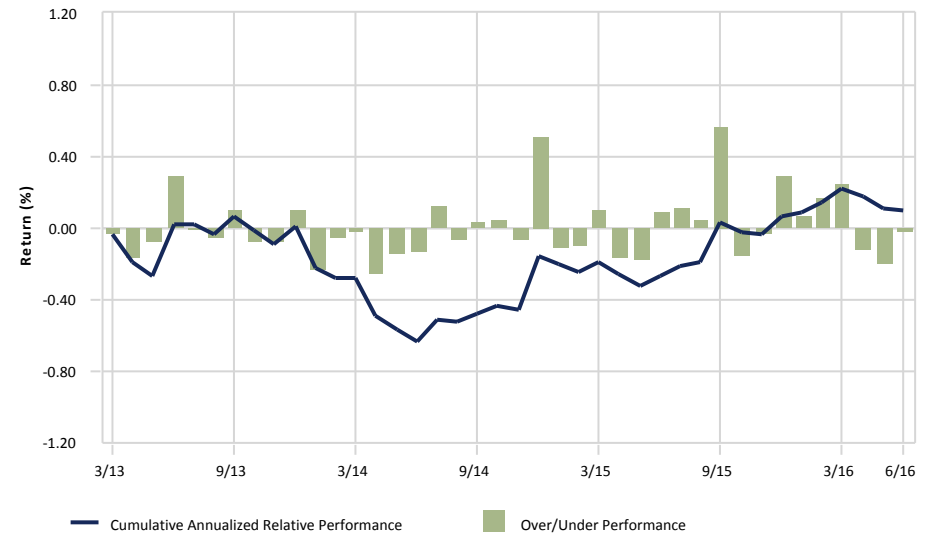


	3 Month	CYTD	1 Year	3 Year	5 Year	7 Year	10 Year	2015	2014	2013
● Eaton Vance Instl Senior Loan Trust	2.56 (50)	4.65 (20)	1.91 (51)	2.87 (89)	-	-	-	-0.22 (74)	1.30 (85)	-
▲ S&P/LSTA Leverage Loan Index	2.92 (25)	4.51 (31)	0.94 (80)	2.76 (90)	3.79 (89)	6.58 (63)	4.47 (69)	-0.69 (86)	1.60 (72)	5.29 (85)
Median	2.56	4.20	1.96	3.44	4.54	6.69	4.78	0.66	2.06	6.35

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



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



gross of fees

# City of Jacksonville Police & Fire Pension Fund

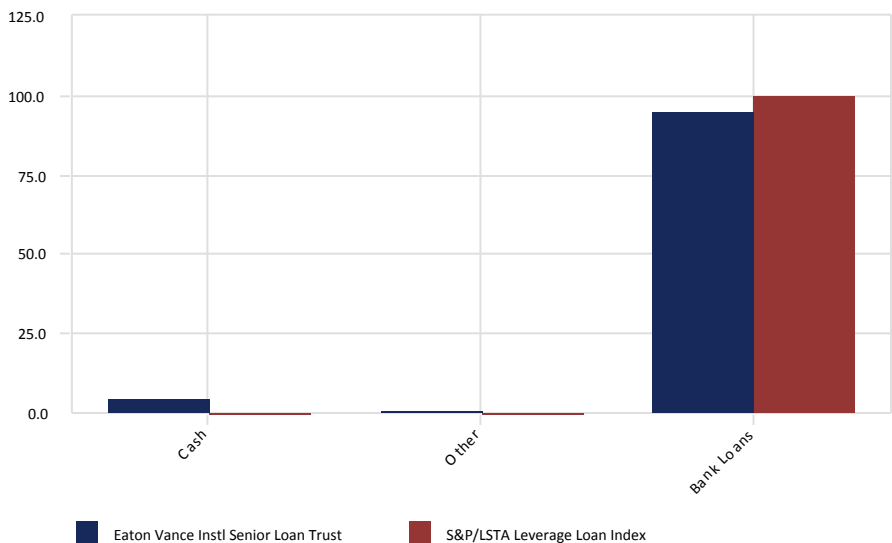
Eaton Vance Instl Senior Loan Trust vs. S&P/LSTA Leverage Loan Index

June 30, 2016

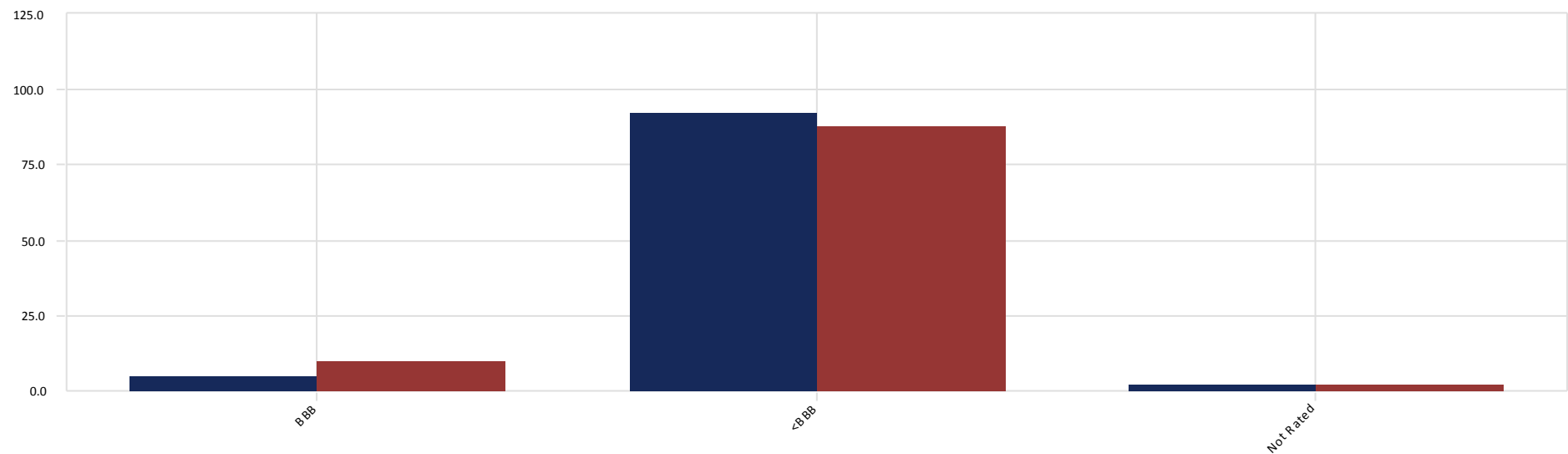
## Portfolio Characteristics

	Portfolio	Benchmark
Effective Duration	-	-
Avg. Quality	Ba3/B1	B+
Yield To Maturity (%)	-	6.48
Coupon Rate (%)	3.42	5.13

## Sector Distribution (%)



## Credit Quality Distribution (%)

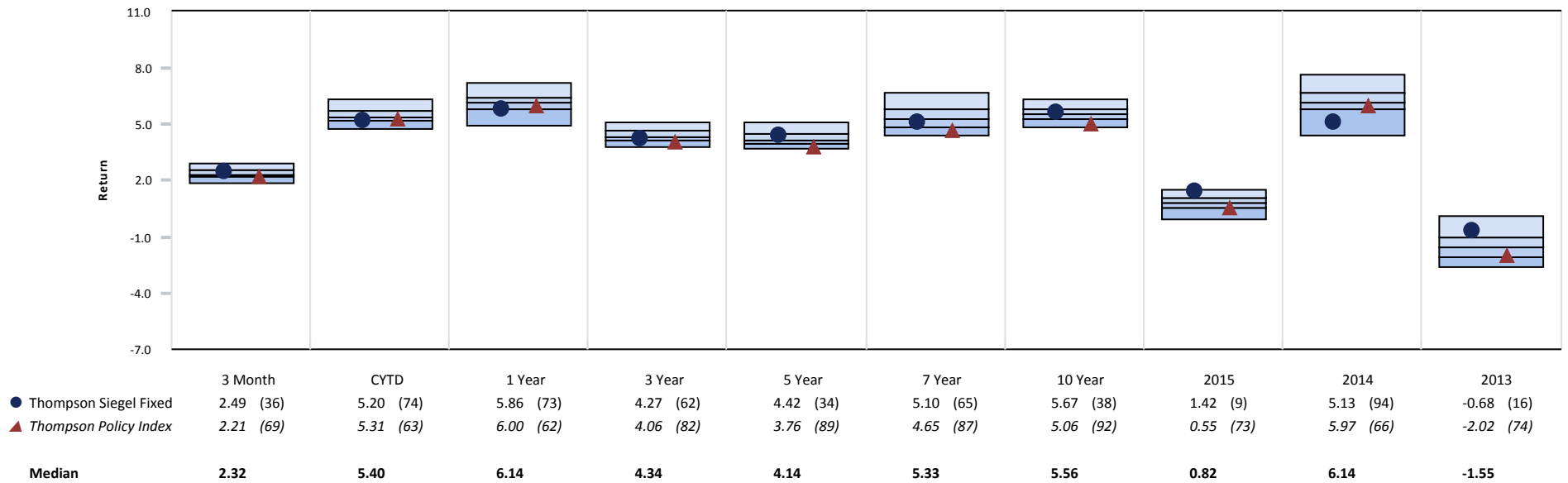


# City of Jacksonville Police & Fire Pension Fund

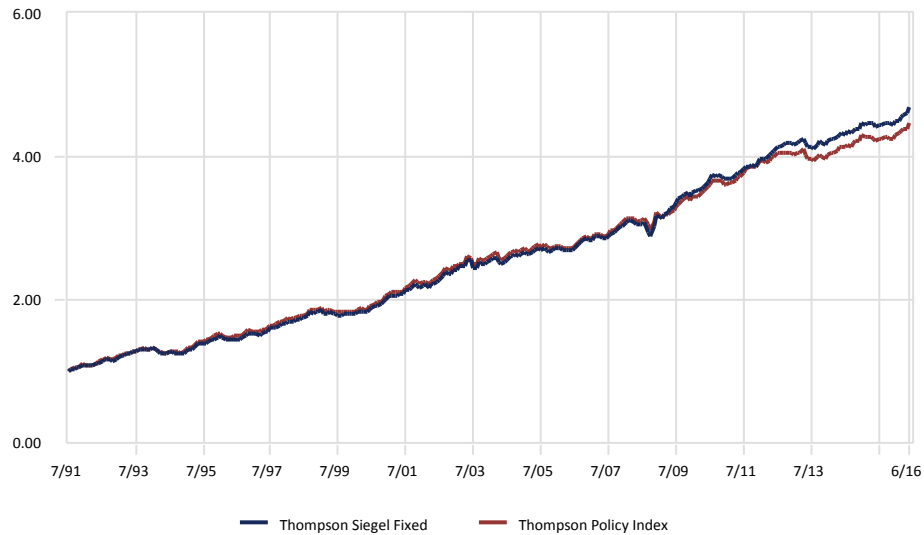
Thompson Siegel Fixed

June 30, 2016

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

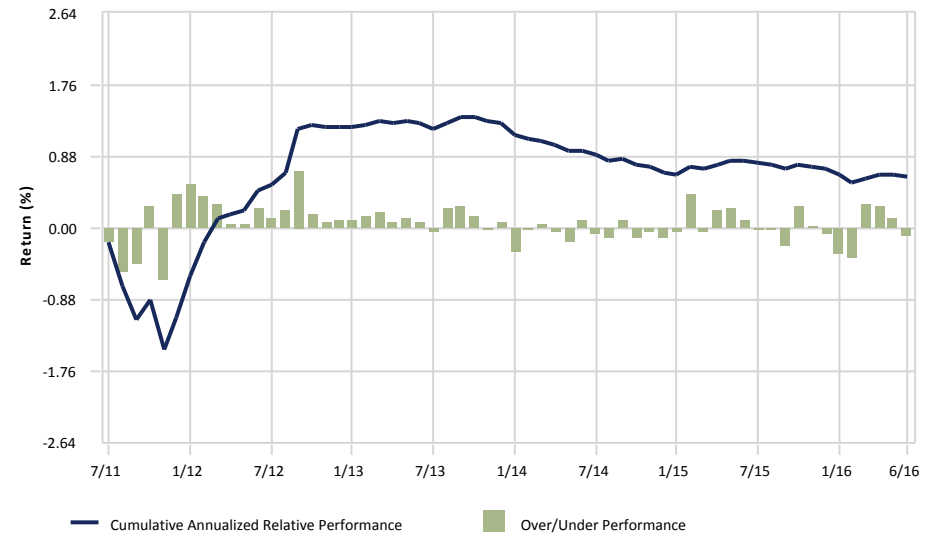


## Growth of \$1 - Since Inception (08/01/91)



gross of fees

## Relative Performance vs. Thompson Policy Index



# City of Jacksonville Police & Fire Pension Fund

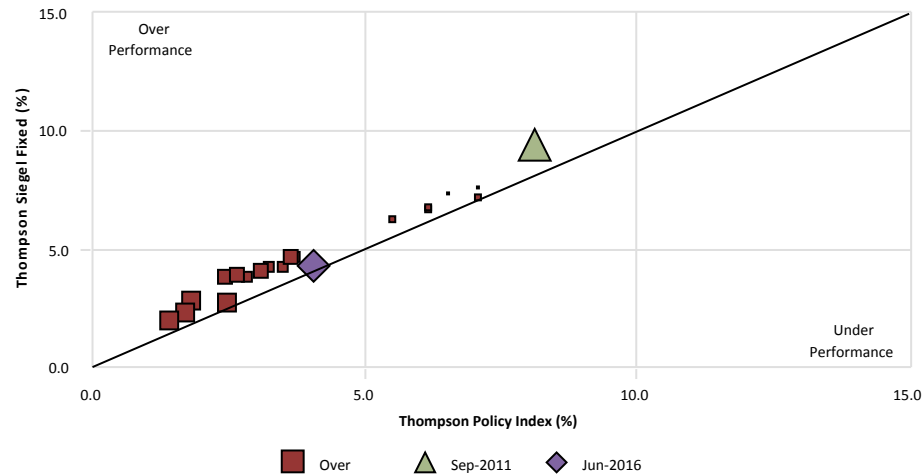
Thompson Siegel Fixed

June 30, 2016

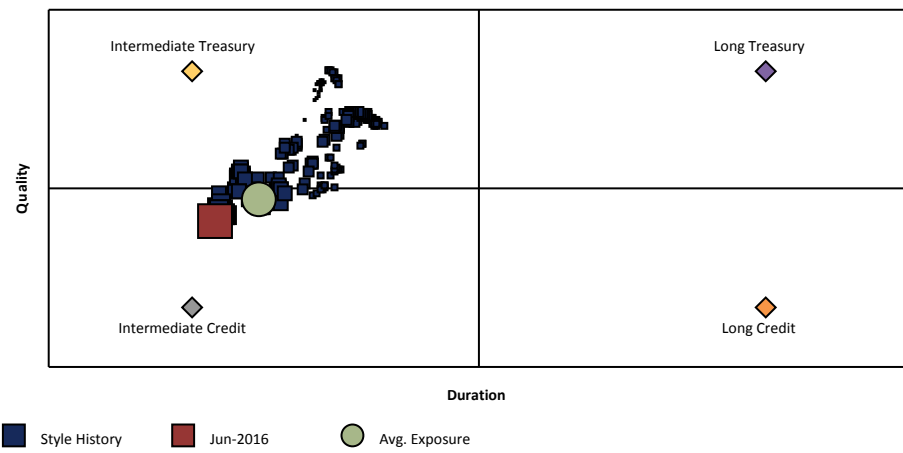
## 3 Year Portfolio Statistics

	Simple Alpha	Alpha	Beta	R-Squared	Tracking Error	Information Ratio	Sharpe Ratio	Consistency	Up Capture	Down Capture	Actual Correlation
Thompson Siegel Fixed	0.21	0.67	0.88	0.95	0.63	0.31	1.76	47.22	96.10	78.31	0.97
Thompson Policy Index	0.00	0.00	1.00	1.00	0.00	-	1.52	0.00	100.00	100.00	1.00
90 Day US Treasury Bill	-4.00	0.05	0.00	0.07	2.61	-1.52	-	36.11	0.85	-0.82	0.27

## 3 Year Rolling Under/Over Performance

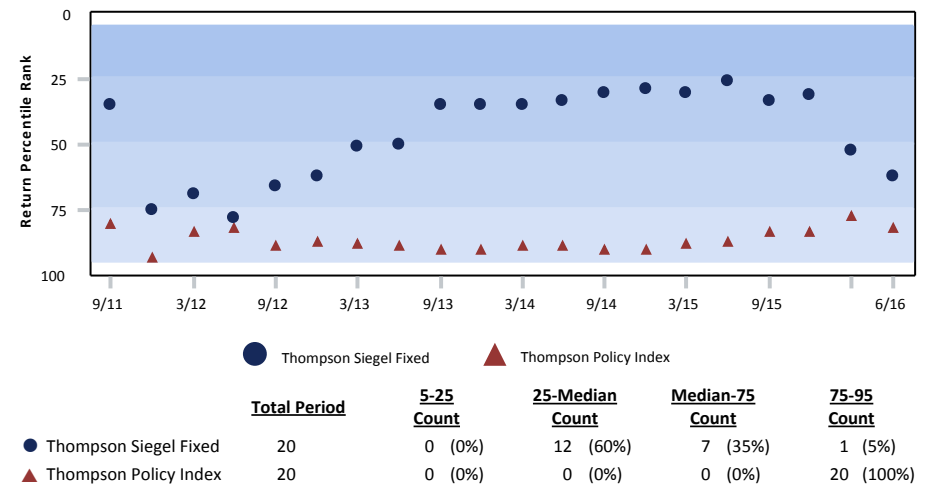


## 3 Year Style Analysis

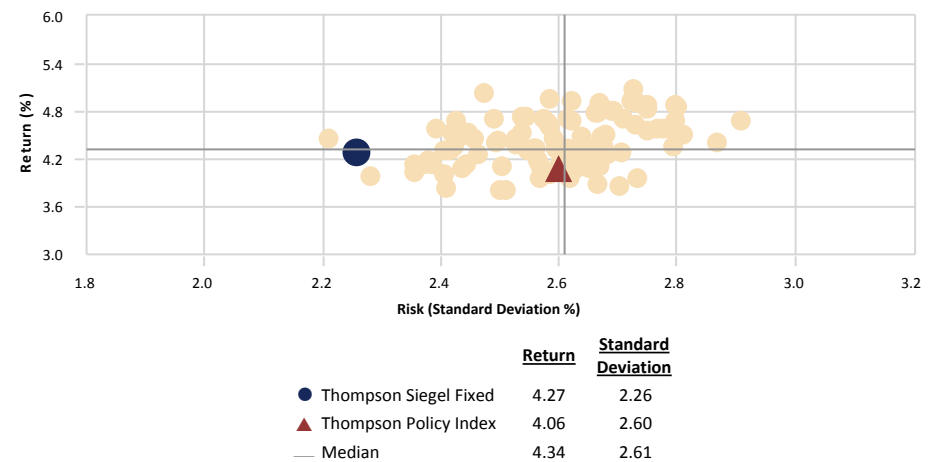


gross of fees

## 3 Year Rolling Relative Ranking



## Risk vs. Return (07/01/13 - 06/30/16)



# City of Jacksonville Police & Fire Pension Fund

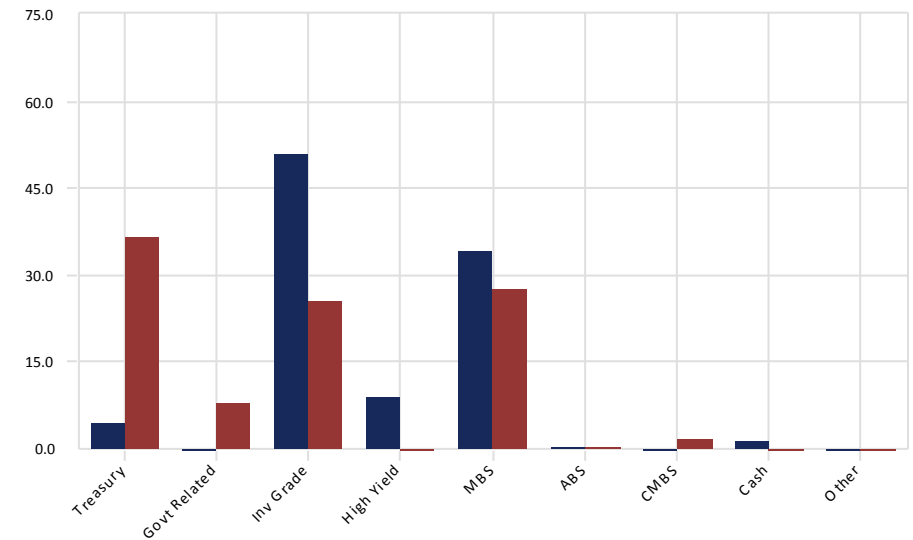
Thompson Siegel Fixed vs. Barclays Aggregate

June 30, 2016

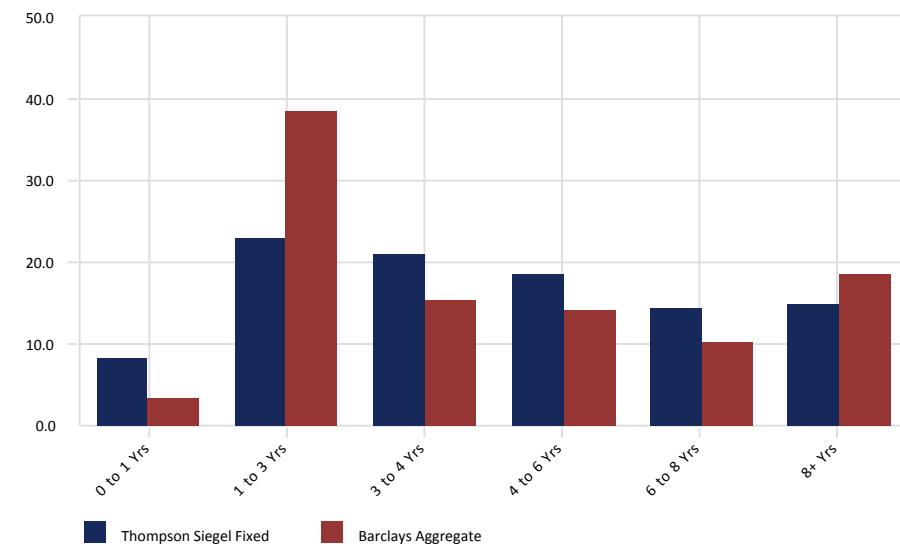
## Portfolio Characteristics

	<u>Portfolio</u>	<u>Benchmark</u>
Effective Duration	4.92	5.39
Avg. Maturity	6.95	7.77
Avg. Quality	A2	AA1/AA2
Yield To Maturity (%)	3.21	1.92
Coupon Rate (%)	4.27	3.13

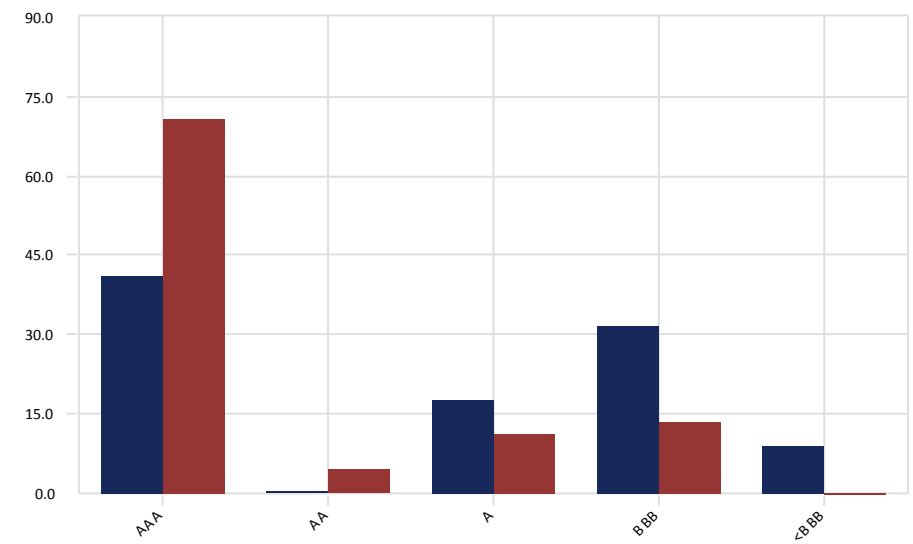
## Sector Distribution (%)



## Duration Distribution (%)



## Credit Quality Distribution (%)





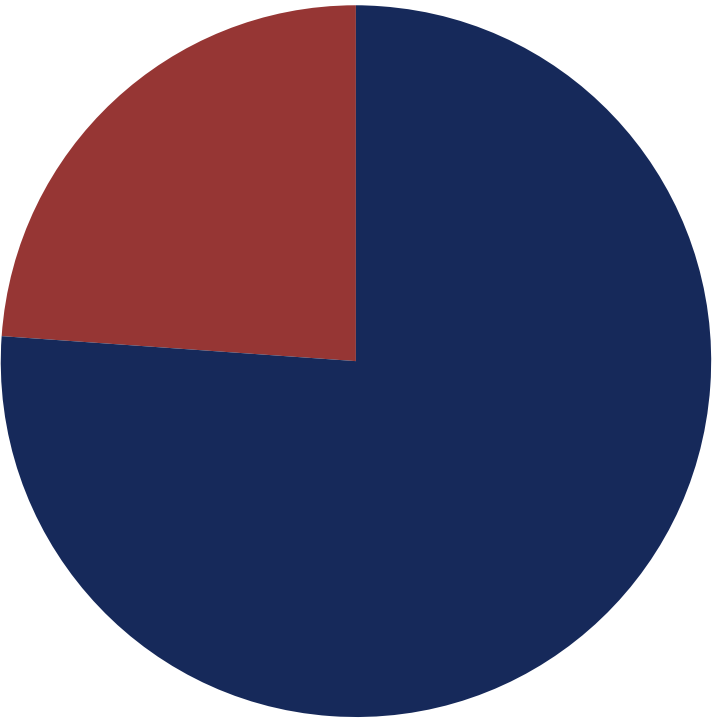
## Real Estate

# City of Jacksonville Police & Fire Pension Fund

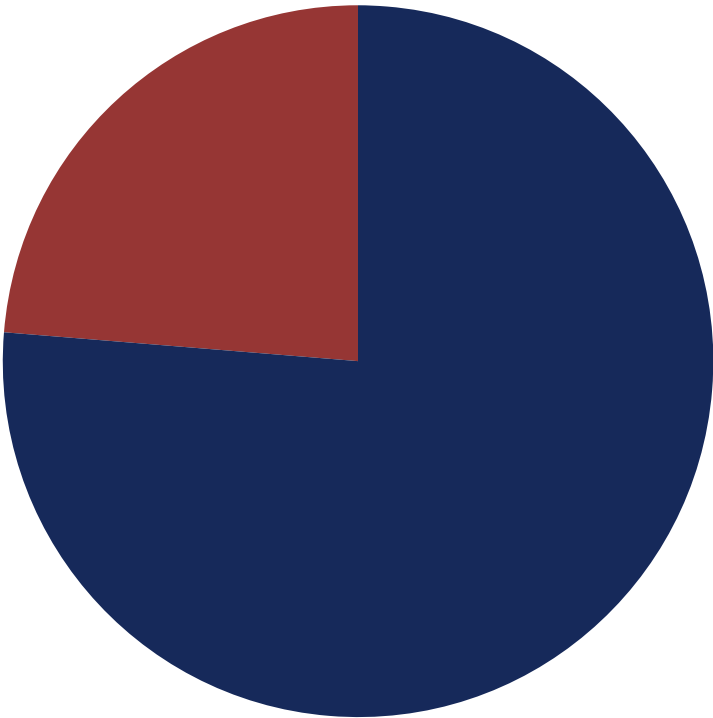
## Real Estate Manager Allocation Chart

June 30, 2016

June 30, 2016 : \$185,740,455	March 31, 2016 : \$181,639,090
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	Market Value (\$)	Allocation (%)
JP Morgan	141,384,164	76.12
Principal Global Investments	44,356,291	23.88

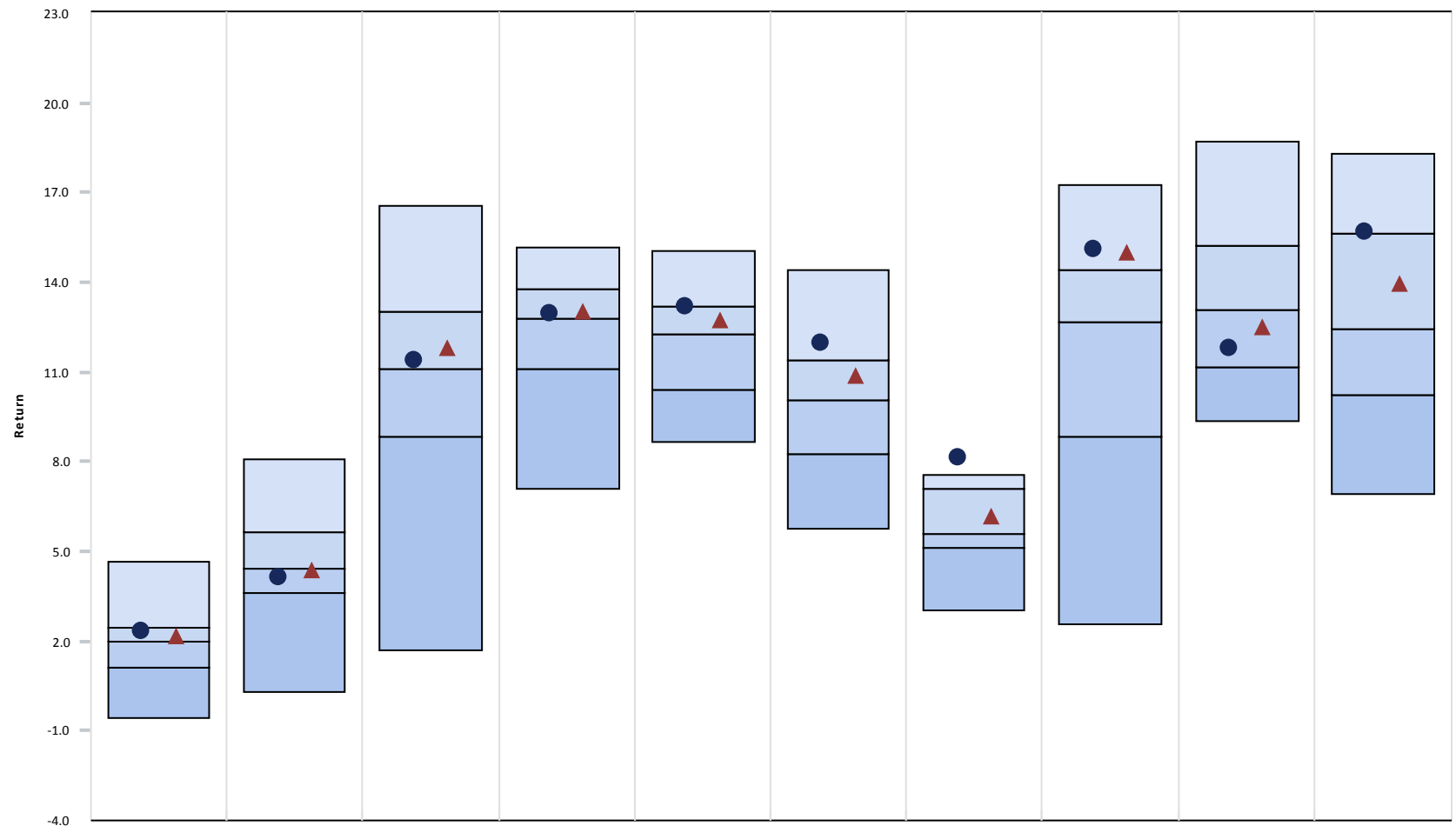


	Market Value (\$)	Allocation (%)
JP Morgan	138,582,328	76.30
Principal Global Investments	43,056,762	23.70

# City of Jacksonville Police & Fire Pension Fund

All Master Trust-Real Estate Segment

June 30, 2016



	<u>3 Month</u>	<u>CYTD</u>	<u>1 Year</u>	<u>3 Year</u>	<u>5 Year</u>	<u>7 Year</u>	<u>10 Year</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>
● Real Estate	2.31 (30)	4.12 (59)	11.41 (45)	12.95 (41)	13.17 (28)	11.94 (13)	8.12 (3)	15.10 (23)	11.79 (69)	15.66 (25)
▲ NCREIF Fund Index - ODCE [M]	2.13 (42)	4.36 (52)	11.81 (42)	12.99 (40)	12.71 (43)	10.88 (32)	6.17 (37)	15.01 (23)	12.50 (61)	13.94 (43)
5th Percentile	4.67	8.08	16.54	15.15	15.03	14.41	7.57	17.24	18.70	18.29
1st Quartile	2.46	5.62	13.00	13.78	13.21	11.37	7.09	14.43	15.20	15.60
<b>Median</b>	<b>1.99</b>	<b>4.45</b>	<b>11.10</b>	<b>12.77</b>	<b>12.24</b>	<b>10.04</b>	<b>5.60</b>	<b>12.65</b>	<b>13.06</b>	<b>12.45</b>
3rd Quartile	1.09	3.58	8.84	11.07	10.41	8.23	5.09	8.81	11.14	10.22
95th Percentile	-0.60	0.32	1.70	7.11	8.64	5.77	3.03	2.54	9.38	6.93

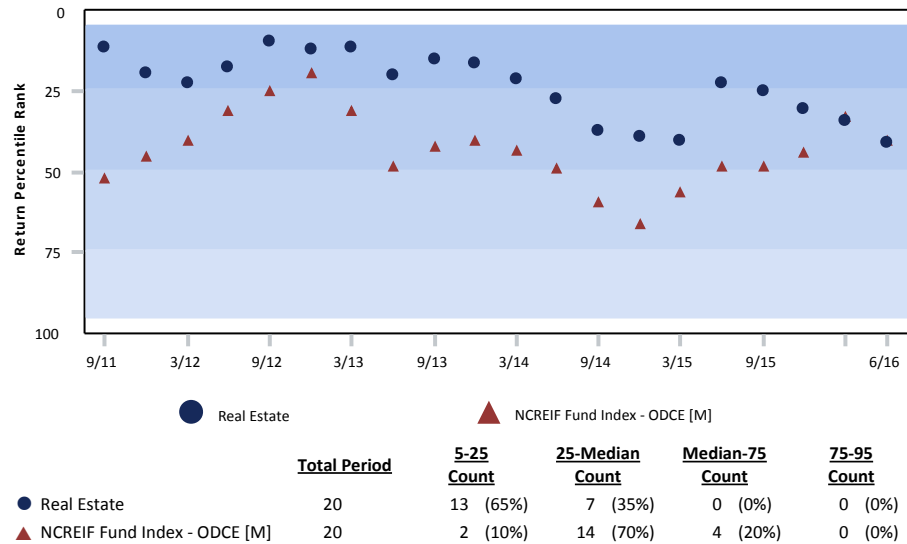
Parentheses contain percentile rankings.

# City of Jacksonville Police & Fire Pension Fund

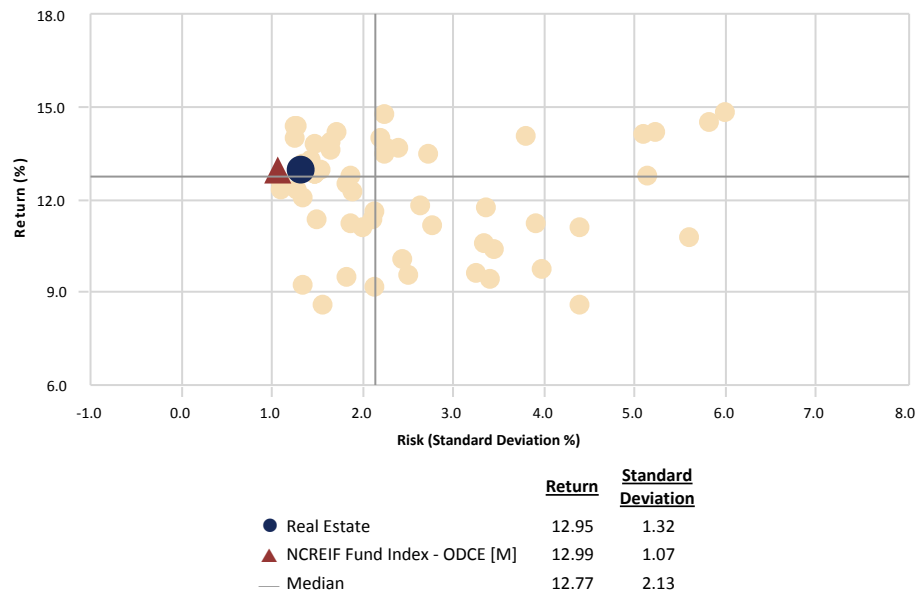
Real Estate

June 30, 2016

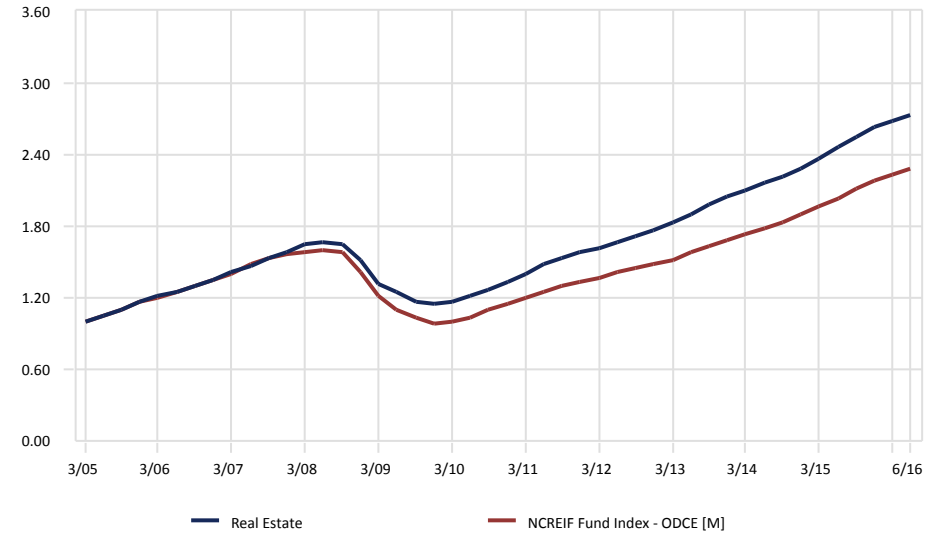
## 3 Year Rolling Return Rank



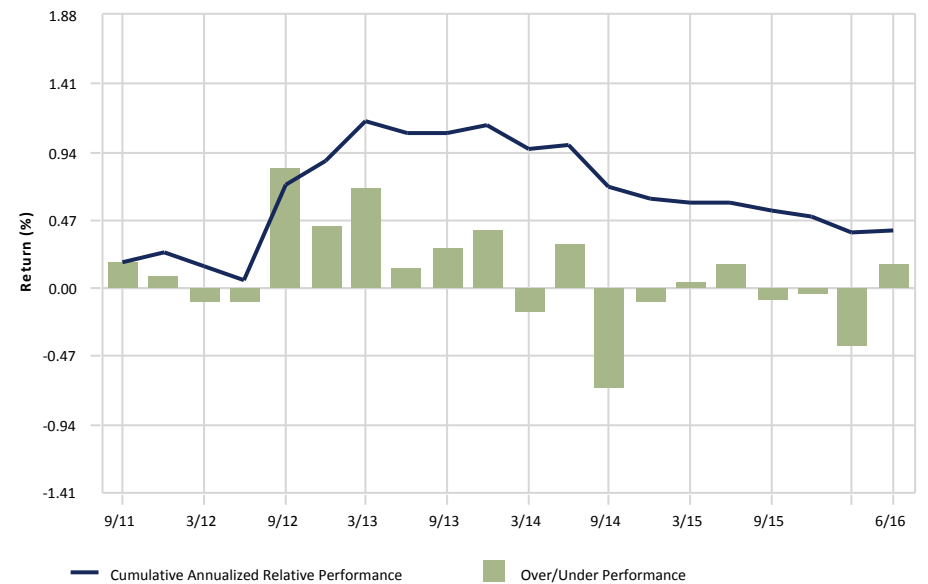
## Risk vs. Return (07/01/13 - 06/30/16)



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



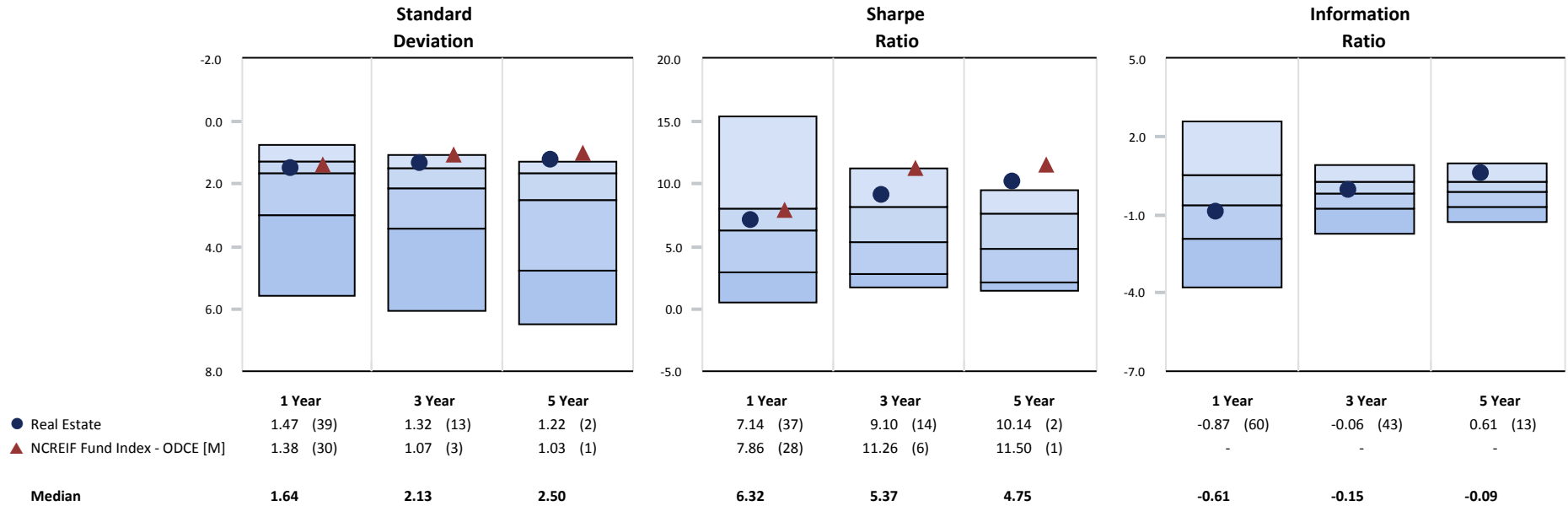
## Relative Performance vs. NCREIF Fund Index - ODCE [M]



City of Jacksonville Police & Fire Pension Fund

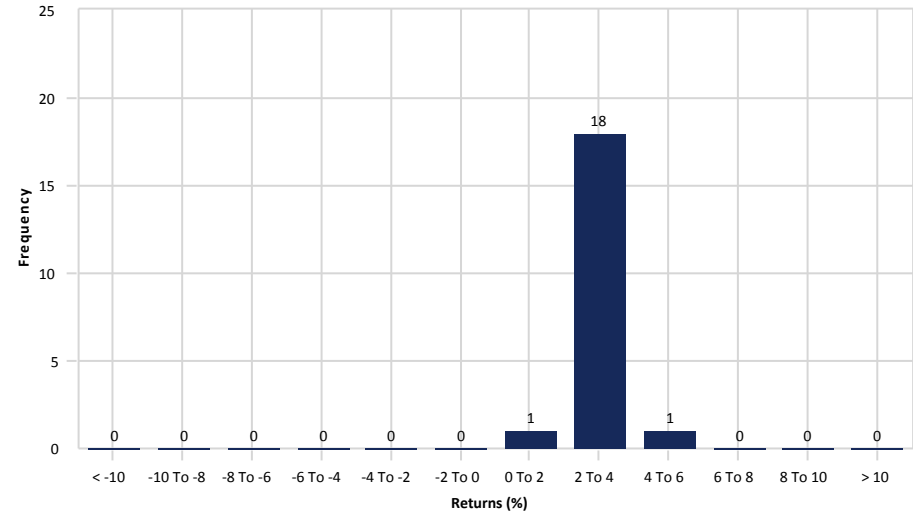
Real Estate  
June 30, 2016

Peer Group Analysis: All Master Trust-Real Estate Segment

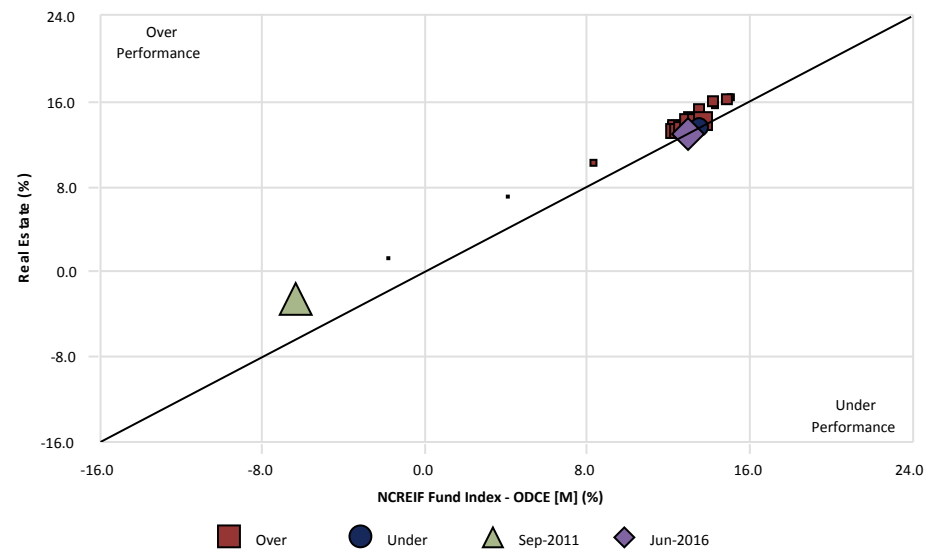


Quarterly Distribution of Returns

Distribution of Returns



3 Year Rolling Under/Over Performance

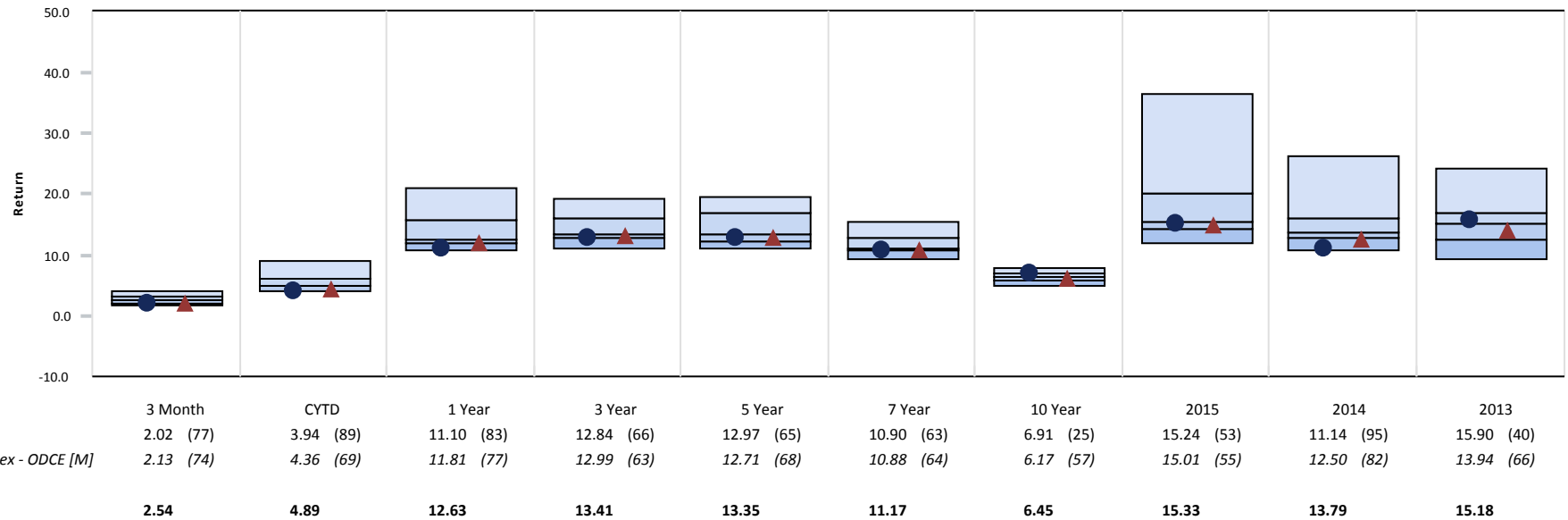


# City of Jacksonville Police & Fire Pension Fund

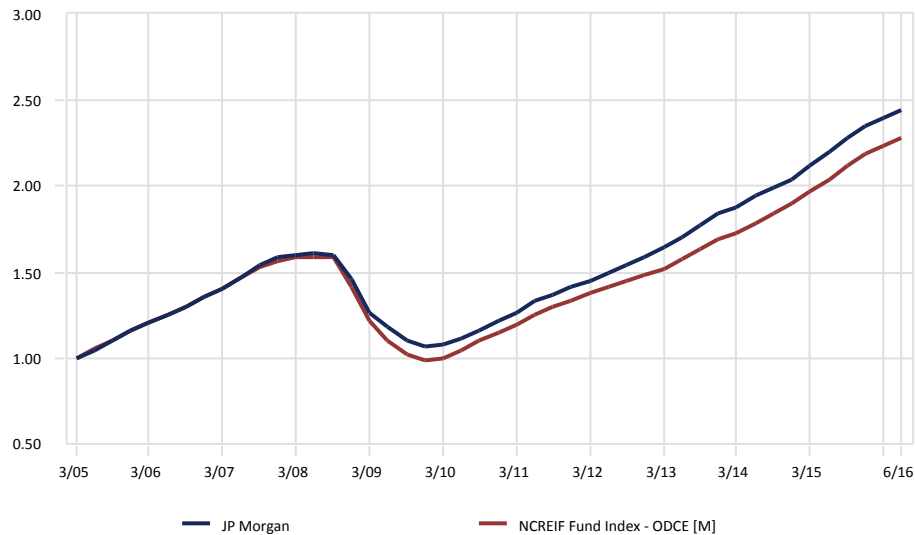
JP Morgan

June 30, 2016

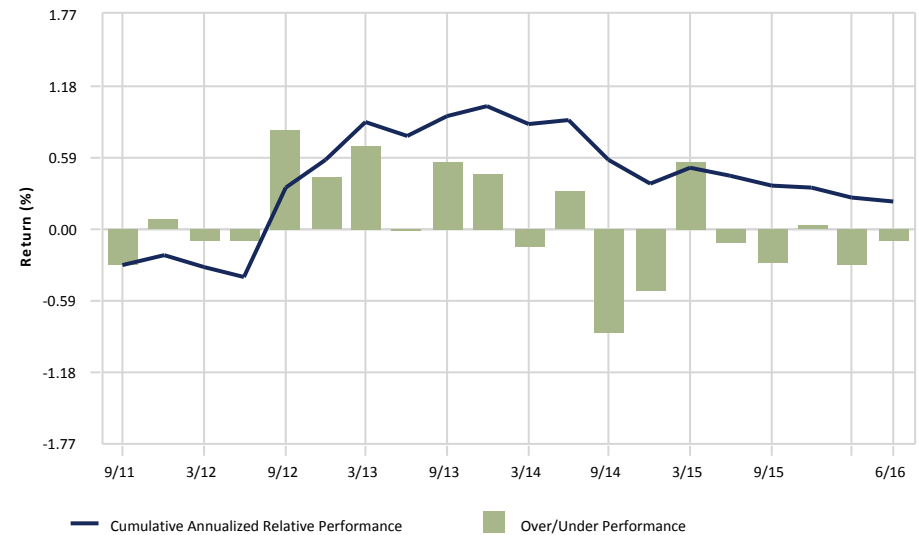
## Peer Group Analysis - IM U.S. Private Real Estate (SA+CF)



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



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



# City of Jacksonville Police & Fire Pension Fund

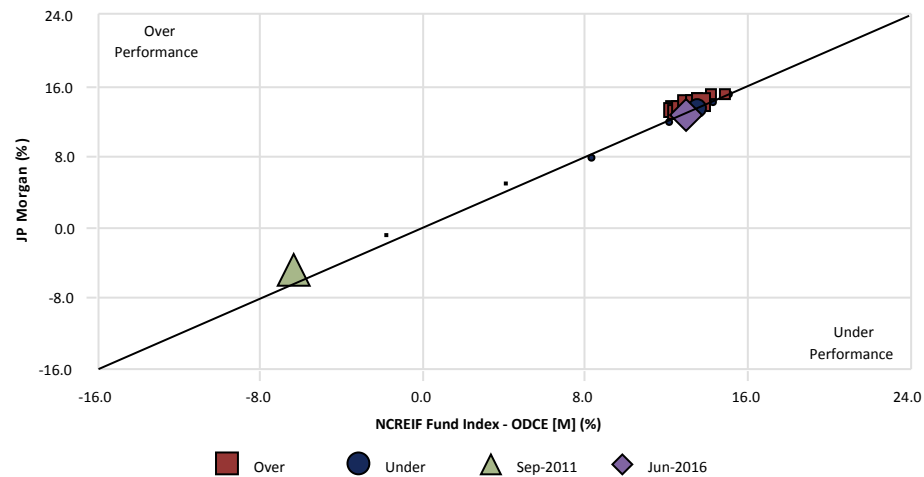
JP Morgan

June 30, 2016

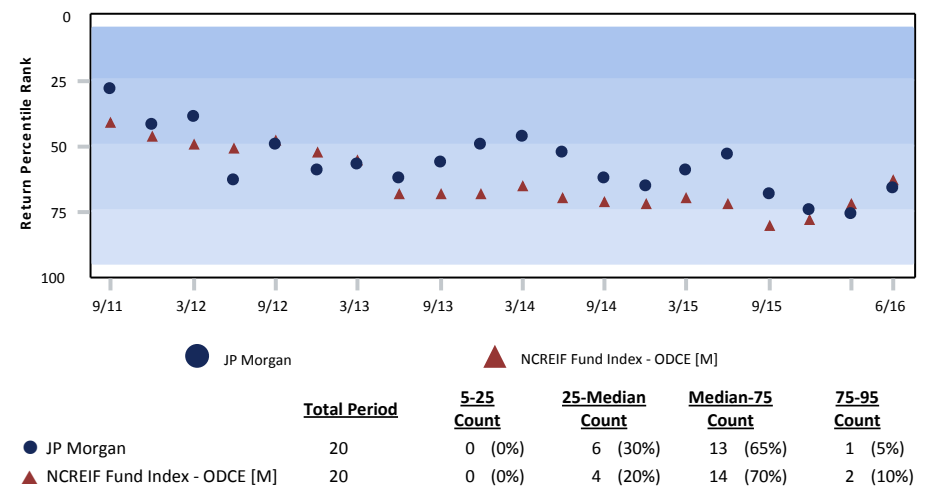
## 3 Year Portfolio Statistics

	Simple Alpha	Alpha	Beta	R-Squared	Tracking Error	Information Ratio	Sharpe Ratio	Consistency	Up Capture	Down Capture	Actual Correlation
JP Morgan	-0.15	11.29	0.11	0.19	4.75	-0.05	8.94	66.67	97.94	-	0.44
NCREIF Fund Index - ODCE [M]	0.00	0.00	1.00	1.00	0.00	-	2.39	0.00	100.00	-	1.00
90 Day US Treasury Bill	-12.92	0.03	0.00	0.10	5.16	-2.39	-	41.67	0.54	-	0.32

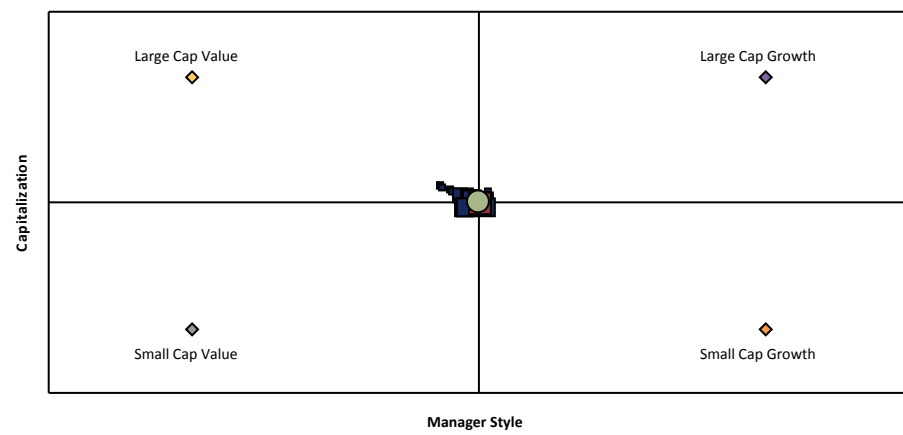
## 3 Year Rolling Under/Over Performance



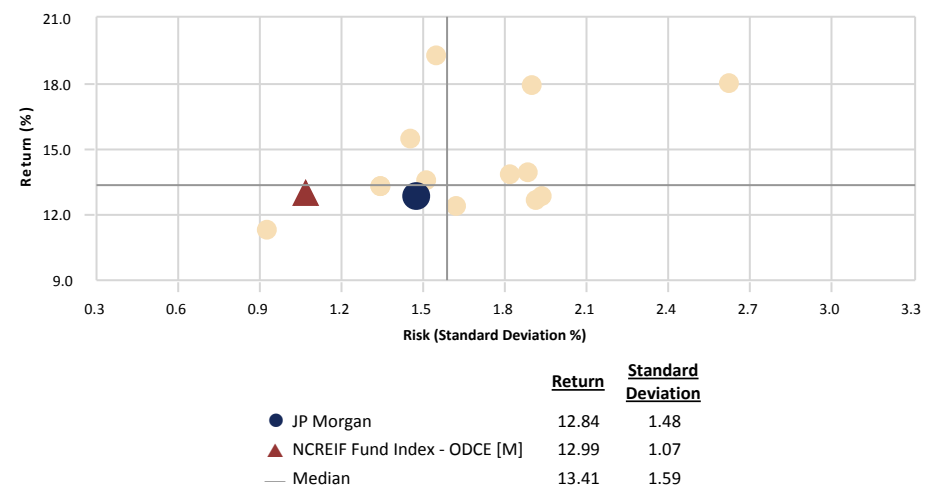
## 3 Year Rolling Relative Ranking



## 3 Year Style Analysis



## Risk vs. Return (07/01/13 - 06/30/16)



### JP MORGAN FLEMING: Strategic Property Fund

Quarter Ending: June 30, 2016

#### General Fund Information

Structure	Commingled Pension Fund
Inception Date	1/1/1998
Termination Date	Infinite Life
L/T Return Objective	1.0% over NCREIF
Eligible Property Types	Office, Residential, Industrial, Retail, Land
# of Investors	364
Maximum Leverage	Portfolio 35%; Asset Specific 65%

#### Fund Characteristics

# of Investments / Assets	173
Fund NAV (\$)	\$30.7 billion
Fund GAV (\$)	\$41.9 billion
Cash & Equivalents (% of NAV)	5%
Portfolio Leverage (%)	26%
Occupancy %	92%
# of Metro Areas Invested	55
Wtd Avg Cost of Debt	4.1%
% Debt that is Fixed	82.7%
Net Investor Flows this Qtr (\$)	\$338,957,730
Size of Contribution Queue (\$)	\$315,000,000

#### Contact Information

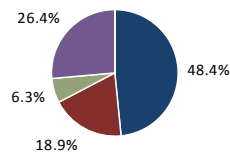
Portfolio Manager	Kimberly Adams
PM Tenure	July 2012
Address	270 Park Avenue, 7th Floor New York, NY 10017
Phone	212-648-2176
Email	kimberly.a.adams@jpmorgan.com

#### General Firm Information

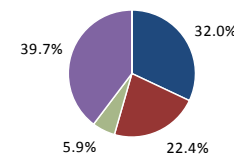
Year Founded	1871 (Firm); 1970 (Real Estate)
AUM (\$)	\$1.7 trillion

#### Fund Diversification

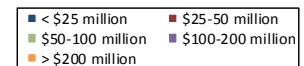
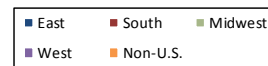
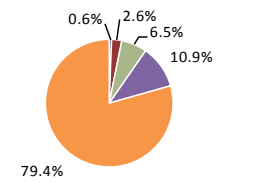
**Property Type**



**Geographic Region**



**Property Size**



#### Performance (% gross of fees)

	Fund			NFI ODCE		
	Income	Apprec	Total	Income	Apprec	Total
Quarter	1.1%	0.9%	<b>2.0%</b>	1.1%	1.1%	<b>2.1%</b>
YTD	2.2%	1.7%	<b>3.9%</b>	2.2%	2.1%	<b>4.4%</b>
1-Year	4.6%	6.2%	<b>11.1%</b>	4.6%	7.0%	<b>11.8%</b>
3-Years	5.0%	7.5%	<b>12.8%</b>	4.9%	7.8%	<b>13.0%</b>
5-Years	5.1%	7.6%	<b>13.0%</b>	5.1%	7.3%	<b>12.7%</b>

#### Top Six MSAs

MSA	% of GMV
New York-No. NJ	14.5%
Los Angeles, CA	10.7%
Boston, MA	9.8%
Dallas-Fort Worth, TX	8.6%
San Francisco, CA	6.4%
Houston, TX	5.2%

#### Ten Largest Investments (GMV)

Investment Name	GMV (\$)	MSA	Type	%
Edens	\$1,751,297,153	Various	Retail	4.2%
Donahue Schriber	\$1,531,779,225	Various	Retail	3.7%
1345 Ave. Americas	\$1,073,739,925	New York-No. NJ	Office	2.6%
200 Fifth Avenue	\$965,054,106	New York-No. NJ	Office	2.3%
Century Plaza Towers	\$923,442,600	Los Angeles, CA	Office	2.2%
Back Bay	\$902,695,068	Boston, MA	Office	2.2%
North Park Ctr.	\$879,431,254	Dallas, TX	Retail	2.1%
Valley Fair Mall	\$871,449,833	San Jose, CA	Retail	2.1%
Royal Hawaiian Ctr.	\$855,837,874	Honolulu, HI	Retail	2.0%
Alliance Texas	\$824,824,487	Dallas, TX	Industrial	2.0%

#### Quarterly Fund Activity

Acquisitions	
# of Investments	5
Total GMV (\$)	\$702.8 million
Dispositions	
# of Investments	3
Total GMV (\$)	\$900.2 million
Marked to Market	
# Written Up	28
# Written Down	13

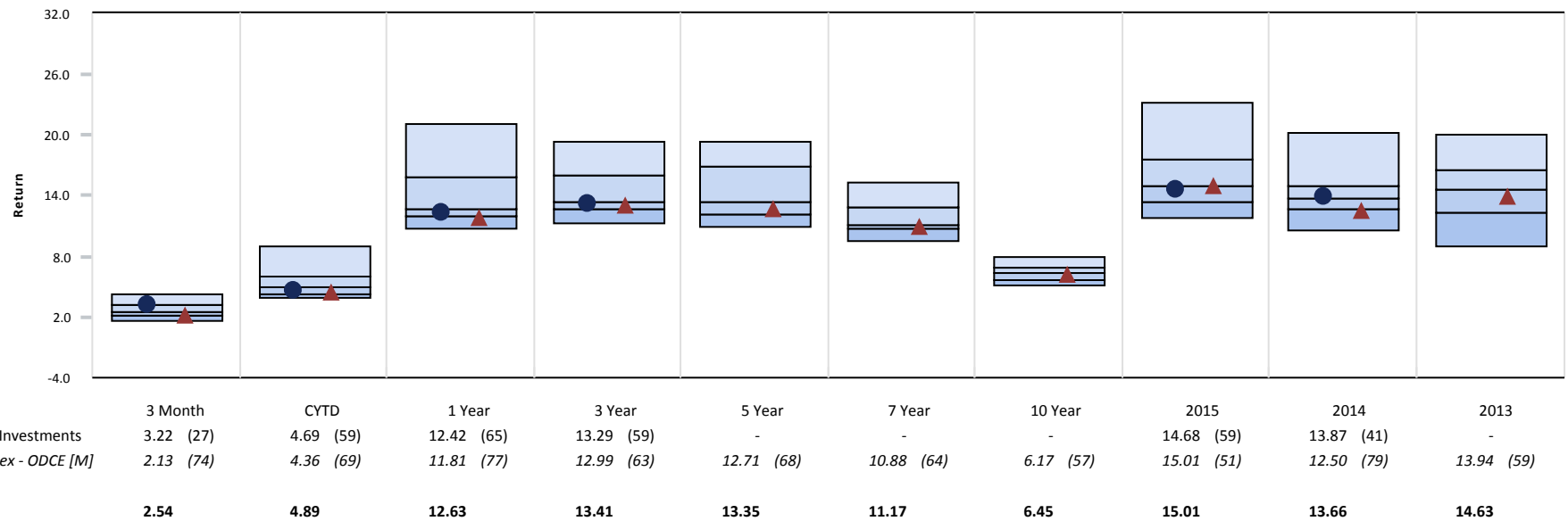


# City of Jacksonville Police & Fire Pension Fund

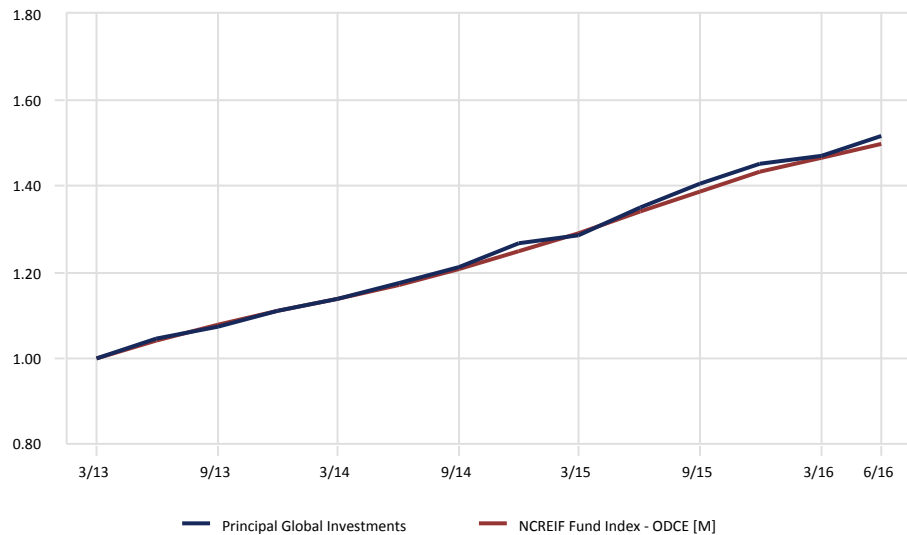
Principal Global Investments

June 30, 2016

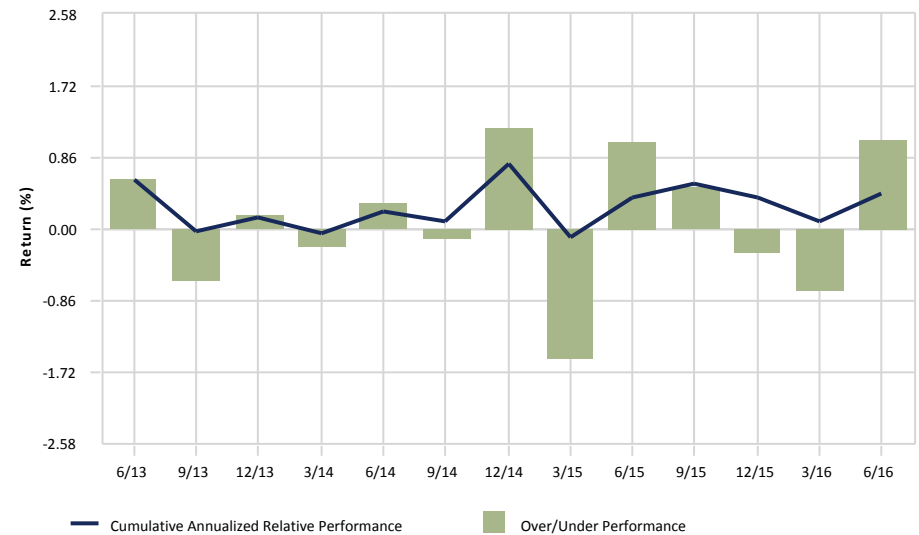
## Peer Group Analysis - IM U.S. Open End Private Real Estate (SA+CF)



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



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



### PRINCIPAL REAL ESTATE: U.S. Property Account

Quarter Ending: June 30, 2016

#### General Fund Information

Structure	Insurance Co. Separate Account
Inception Date	1/31/1982
Termination Date	Infinite Life
L/T Return Objective	Returns = NFI-ODCE Equal Weight
Eligible Property Types	Office, Residential, Industrial, Retail, Hotel, Land
# of Investors	7,886
Maximum Leverage	33%

#### Fund Characteristics

# of Investments / Assets	149
Fund NAV (\$)	\$6.8 billion
Fund GAV (\$)	\$9.1 billion
Cash & Equivalents (% of NAV)	1%
Portfolio Leverage (%)	22%
Occupancy %	94.4% (core); 90.2% (total portfolio)
# of Metro Areas Invested	44
Wtd Avg Cost of Debt	3.4%
% Debt that is Fixed	71%
Net Investor Flows this Qtr (\$)	-\$54.6 million
Size of Contribution Queue (\$)	\$222.6 million

#### Contact Information

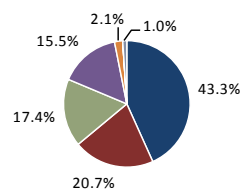
Portfolio Manager	John Berg
PM Tenure	January 1994
Address	801 Grand Avenue Des Moines, IA 50392
Phone	515-248-8261
Email	berg.john@principal.com

#### General Firm Information

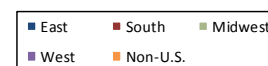
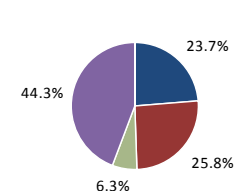
Year Founded	1999
AUM (\$)	\$70.0 billion (Real Estate)

#### Fund Diversification

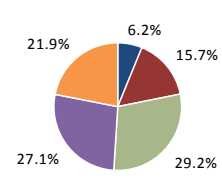
Property Type



Geographic Region



Property Size



#### Performance (% gross of fees)

	Fund			NFI ODCE		
	Income	Apprec	Total	Income	Apprec	Total
Quarter	1.3%	1.3%	<b>2.5%</b>	1.1%	1.0%	<b>2.1%</b>
YTD	2.5%	2.1%	<b>4.7%</b>	2.2%	2.1%	<b>4.4%</b>
1-Year	5.1%	7.1%	<b>12.4%</b>	4.6%	7.0%	<b>11.8%</b>
3-Years	5.3%	7.7%	<b>13.3%</b>	4.9%	7.8%	<b>13.0%</b>
5-Years	5.4%	7.7%	<b>13.5%</b>	5.1%	7.3%	<b>12.7%</b>

#### Top Six MSAs

MSA	% of GMV
New York, NY	8.7%
Seattle, WA	7.3%
Houston, TX	6.0%
Washington, D.C.	5.8%
Cambridge, MA	5.6%
Los Angeles, CA	5.6%

#### Ten Largest Investments (GMV)

Investment Name	GMV (\$)	MSA	Type	%
Park Place	\$388,035,000	Santa Ana, CA	Off./Ret.	4.3%
1370 Ave. Americas	\$346,500,000	New York, NY	Office	3.8%
Energy Center	\$330,900,000	Houston, TX	Office	3.6%
Watermark E. & W.	\$279,000,000	Cambridge, MA	MF/Ret.	3.1%
Charles Park	\$239,000,000	Cambridge, MA	Office	2.6%
Burbank Empire Ctr.	\$229,400,000	Los Angeles, CA	Retail	2.5%
555 City Center	\$209,925,000	Oakland, CA	Office	2.3%
112th at 12th Street	\$197,000,000	Seattle, WA	Office	2.2%
J.W. Marriott	\$192,687,000	San Antonio, TX	Hotel	2.1%
West Campus	\$182,300,000	Austin, TX	MF/Ret.	2.0%

#### Quarterly Fund Activity

Acquisitions	
# of Investments	2
Total GMV (\$)	\$219.1 million
Dispositions	
# of Investments	0
Total GMV (\$)	\$0
Marked to Market	
# Written Up	93
# Written Down	9

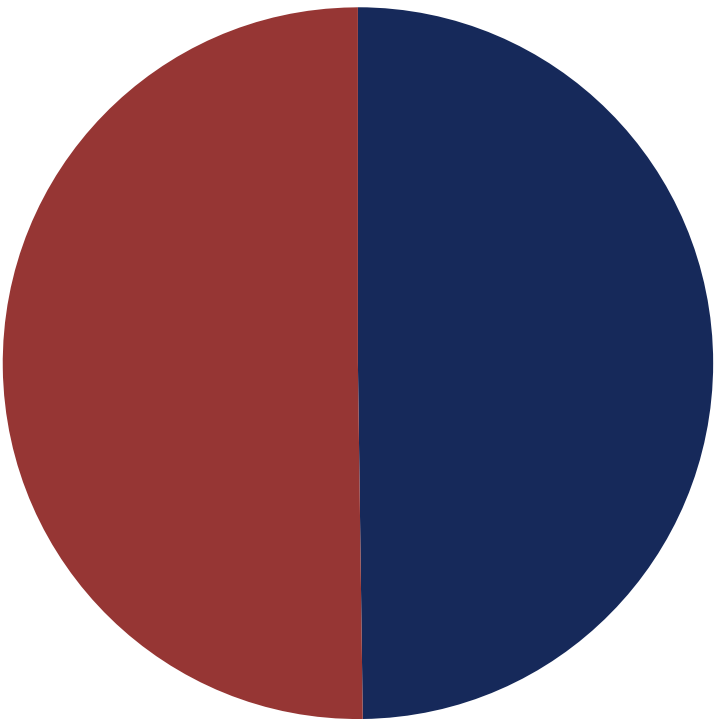
**MLPs/Energy**

# City of Jacksonville Police & Fire Pension Fund

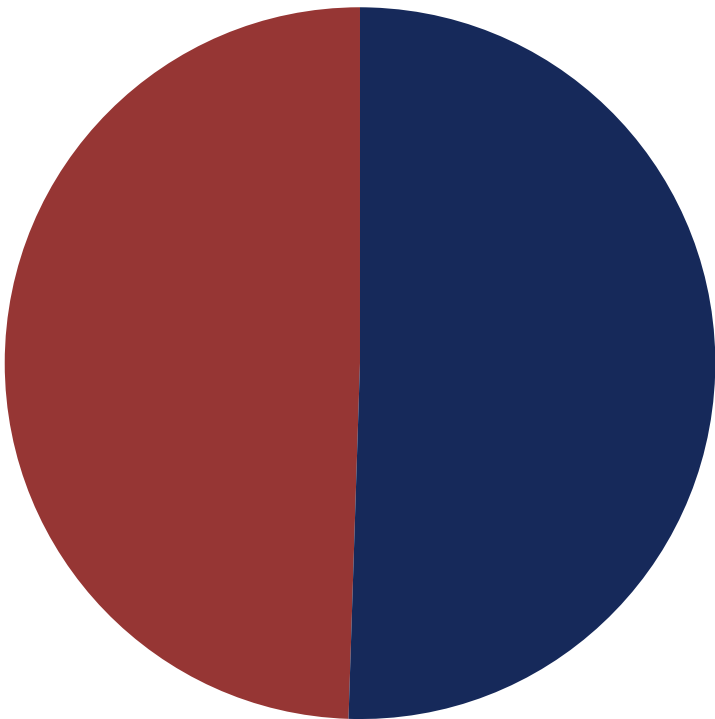
MLPs/Energy Asset Allocation Chart

June 30, 2016

June 30, 2016 : \$98,156,472	March 31, 2016 : \$82,689,631
------------------------------	-------------------------------



	Market Value (\$)	Allocation (%)
■ Tortoise MLP	48,869,271	49.79
■ Harvest MLP	49,287,201	50.21



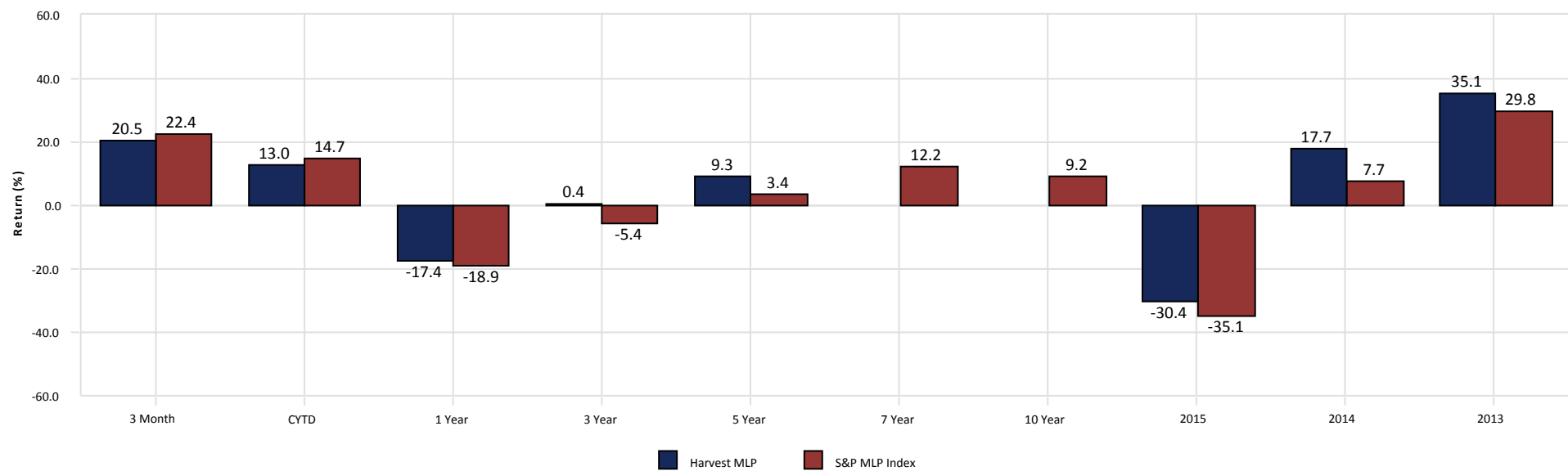
	Market Value (\$)	Allocation (%)
■ Tortoise MLP	41,770,061	50.51
■ Harvest MLP	40,919,570	49.49

# City of Jacksonville Police & Fire Pension Fund

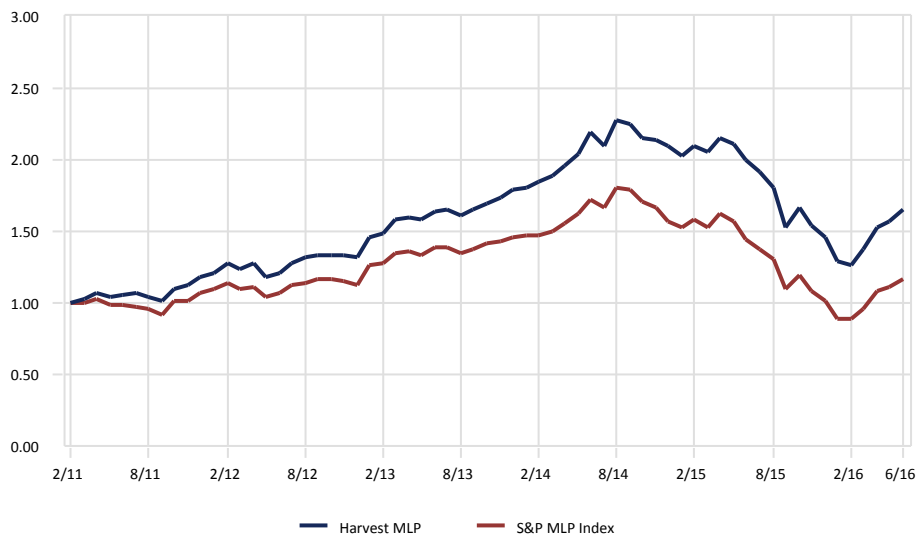
Harvest MLP

June 30, 2016

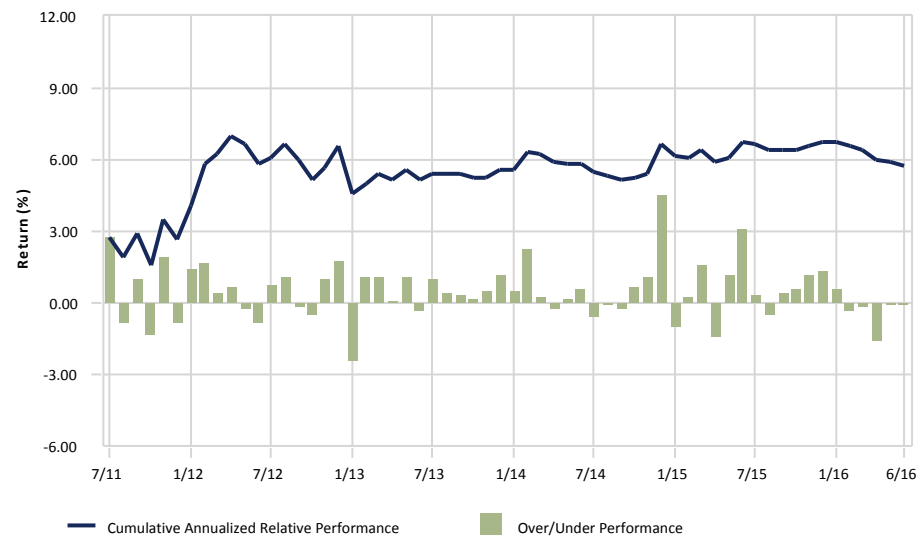
## Comparative Performance



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



## Relative Performance vs. S&P MLP Index



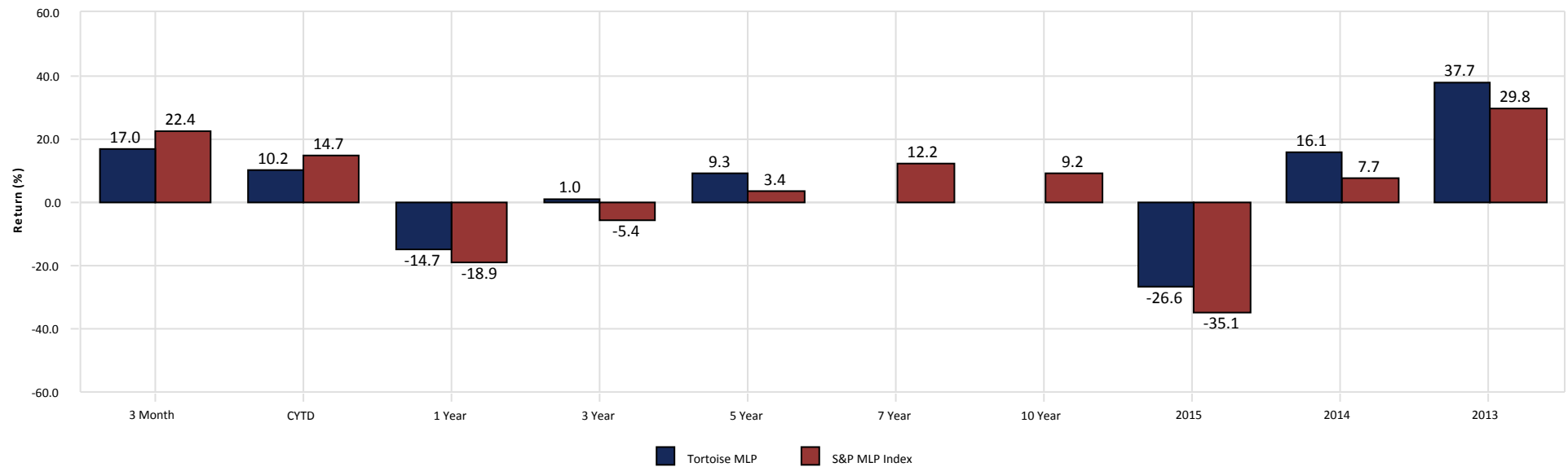
gross of fees

City of Jacksonville Police & Fire Pension Fund

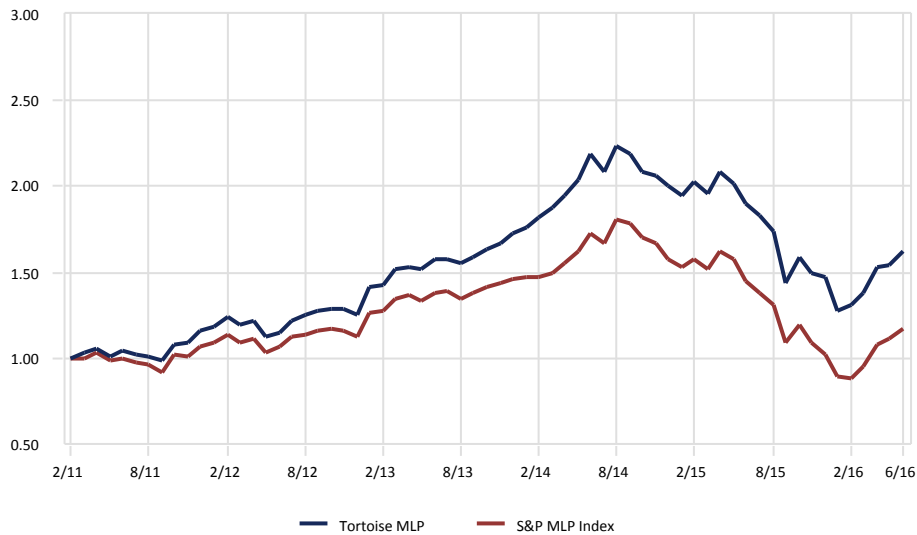
Tortoise MLP

June 30, 2016

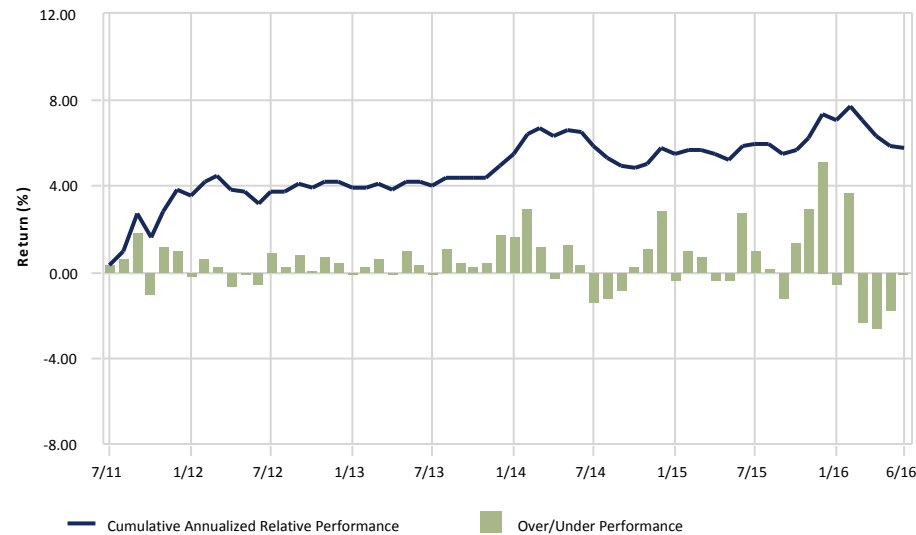
Comparative Performance



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



Relative Performance vs. S&P MLP Index



gross of fees

## Appendix

## City of Jacksonville Police & Fire Pension Fund

Benchmark Composition Total Fund & US Equity & International Equity

As of June 30, 2016

### Total Fund Policy Index

	(%)
<b>Mar-2016</b>	
Russell 3000 Index	39.00
MSCI AC World ex USA (Net)	20.00
Barclays Aggregate	20.50
NCREIF Fund Index - ODCE [M]	15.00
S&P MLP Index	5.50
<b>Mar-2013</b>	
Russell 3000 Index	35.00
MSCI AC World ex USA (Net)	20.00
Barclays Aggregate	22.50
NCREIF Fund Index - ODCE [M]	15.00
S&P MLP Index	7.50
<b>Apr-2012</b>	
Russell 3000 Index	40.00
MSCI AC World ex USA (Net)	20.00
Barclays Aggregate	25.00
NCREIF Fund Index - ODCE [M]	10.00
S&P MLP Index	5.00
<b>Jun-2011</b>	
Russell 3000 Index	40.00
MSCI EAFE Index	20.00
Barclays Aggregate	25.00
NCREIF Fund Index - ODCE [M]	10.00
S&P MLP Index	5.00

### Jul-2009

Russell 3000 Index	40.00
MSCI EAFE Index	20.00
Barclays Aggregate	25.00
NCREIF Fund Index - ODCE [M]	15.00

### Oct-2008

Dow Jones US Total Stock Market Index	50.00
MSCI EAFE Index	10.00
BofA Merrill Lynch Gov Corp Master	30.00
NCREIF Fund Index - ODCE [M]	10.00

### Apr-1989

Dow Jones US Total Stock Market Index	50.00
MSCI EAFE Index	10.00
BofA Merrill Lynch Gov Corp Master	35.00
NCREIF Fund Index - ODCE [M]	5.00

### US Equity Index

	(%)
<b>Jul-2009</b>	
Russell 3000 Index	100.00
<b>Jan-1988</b>	
Dow Jones US Total Stock Market Index	100.00

### International Equity Index

	(%)
<b>Oct-2009</b>	
MSCI AC World ex USA	100.00
<b>Feb-1999</b>	
MSCI EAFE Index	100.00

### Thompson Siegal Policy

	(%)
<b>Oct-2009</b>	
Barclays Aggregate	100.00
<b>Dec-1975</b>	
BofA Merrill Lynch Gov Corp Master	100.00



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

Benchmark Composition Managers

As of June 30, 2016

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**Thompson**

	<u>(%)</u>
<b>Oct-2009</b>	
Barclays Aggregate	100.00
<b>Dec-1975</b>	
BofA Merrill Lynch Gov Corp Master	100.00

## Summit Strategies Group

Index Report

June 30, 2016

	1 Month	3 Month	CYTD	1 Year	3 Year	5 Year	7 Year	10 Year	Since Inception	Inception Date
<b>US Equity: All Cap</b>										
Russell 3000 Index	0.21	2.63	3.62	2.14	11.13	11.60	14.95	7.40	11.63	01/01/1979
Dow Jones US Total Stock Market Index	0.19	2.61	3.55	2.05	11.00	11.55	14.98	7.50	9.99	01/01/1987
<b>US Equity: Large Cap</b>										
Russell 1000 Index	0.23	2.54	3.74	2.93	11.48	11.88	15.03	7.51	11.68	01/01/1979
Russell 1000 Value Index	0.86	4.58	6.30	2.86	9.87	11.35	14.50	6.13	12.07	01/01/1979
Russell 1000 Growth Index	-0.39	0.61	1.36	3.02	13.07	12.35	15.52	8.78	10.93	01/01/1979
S&P 500	0.26	2.46	3.84	3.99	11.66	12.10	14.92	7.42	10.01	01/01/1926
Dow Jones Industrials Average	0.95	2.07	4.31	4.50	8.99	10.32	14.20	7.61	10.14	01/01/1955
<b>US Equity: Mid Cap</b>										
Russell Midcap Index	0.46	3.18	5.50	0.56	10.80	10.90	16.47	8.07	13.26	01/01/1979
Russell Midcap Value Index	0.91	4.77	8.87	3.25	11.00	11.70	17.05	7.79	11.90	01/01/1986
Russell Midcap Growth Index	-0.02	1.56	2.15	-2.14	10.52	9.98	15.82	8.12	10.59	01/01/1986
NASDAQ Composite Index	-2.06	-0.23	-2.66	-1.68	13.85	13.18	16.19	9.48	9.85	01/01/1995
<b>US Equity: SMID Cap</b>										
Russell 2500 Index	-0.04	3.57	3.98	-3.67	8.61	9.48	15.35	7.32	12.63	01/01/1979
Russell 2500 Value Index	0.60	4.37	7.84	0.22	8.14	9.59	15.18	6.52	11.23	01/01/1986
Russell 2500 Growth Index	-0.74	2.70	-0.03	-7.69	9.06	9.27	15.47	7.96	9.34	01/01/1986
<b>US Equity: Small Cap</b>										
Russell 2000 Index	-0.06	3.79	2.22	-6.73	7.09	8.35	13.94	6.20	11.30	01/01/1979
Russell 2000 Value Index	0.30	4.31	6.08	-2.58	6.36	8.15	13.53	5.15	12.83	01/01/1979
Russell 2000 Growth Index	-0.46	3.24	-1.59	-10.75	7.74	8.51	14.29	7.14	9.42	01/01/1979
Russell Microcap	-0.59	3.97	-1.68	-12.06	5.95	8.20	13.12	4.31	6.43	07/01/2000

# Summit Strategies Group

Index Report

June 30, 2016

	1 Month	3 Month	CYTD	1 Year	3 Year	5 Year	7 Year	10 Year	Since Inception	Inception Date
<b>International Equity: Unrestrained, All Cap</b>										
MSCI World (Net)	-1.12	1.01	0.66	-2.78	6.95	6.63	10.27	4.43	8.55	01/01/1970
MSCI World ex-US (Net)	-3.04	-1.05	-2.98	-9.84	1.88	1.23	5.79	1.63	8.60	01/01/1970
MSCI AC World Index (Net)	-0.61	0.99	1.23	-3.73	6.03	5.38	9.52	4.26	4.10	01/01/2001
MSCI AC World ex USA (Net)	-1.53	-0.64	-1.02	-10.24	1.16	0.10	5.35	1.87	3.83	01/01/2001
S&P Developed Ex-US BMI	-2.87	-0.66	-1.98	-8.23	3.16	2.07	7.02	2.56	5.48	07/01/1989
S&P Developed Ex-US SmallCap	-4.06	-1.30	-0.78	-3.80	7.14	4.20	9.95	4.16	6.10	07/01/1989
<b>International Equity: Developed Market, Large Cap</b>										
MSCI EAFE Index	-3.32	-1.19	-4.04	-9.72	2.52	2.15	6.45	2.05	9.25	01/01/1970
MSCI EAFE Index (Net)	-3.36	-1.46	-4.42	-10.16	2.06	1.68	5.97	1.58	8.36	02/01/1985
MSCI EAFE Value Index (Net)	-4.96	-2.79	-6.65	-15.43	-0.10	0.05	4.25	0.21	10.80	01/01/1975
MSCI EAFE Growth Index (Net)	-1.77	-0.15	-2.22	-4.80	4.17	3.24	7.62	2.88	8.33	01/01/1975
S&P EPAC BMI	-3.22	-1.15	-3.43	-8.55	3.40	2.54	7.18	2.55	5.39	07/01/1989
S&P EPAC LargeMidCap	-2.89	-0.87	-3.52	-9.36	2.59	2.07	6.64	2.25	5.23	07/01/1989
S&P EPAC LargeMidCap Value	-3.84	-1.72	-5.54	-13.31	1.25	1.52	6.03	1.89	5.66	07/01/1989
S&P EPAC LargeMidCap Growth	-2.01	-0.08	-1.59	-5.42	3.84	2.56	7.21	2.57	4.75	07/01/1989
<b>International Equity: Developed Market, Small Cap</b>										
MSCI EAFE Small Cap (Net)	-5.28	-2.60	-3.18	-3.67	7.26	4.84	9.93	3.57	7.92	01/01/2001
S&P EPAC SmallCap	-4.86	-2.56	-2.97	-4.39	7.65	4.97	10.03	4.31	6.04	07/01/1989
S&P EPAC SmallCap Value	-4.85	-2.76	-2.69	-5.28	7.83	4.88	10.11	4.43	7.01	07/01/1989
S&P EPAC SmallCap Growth	-4.86	-2.37	-3.24	-3.49	7.43	5.05	9.94	4.18	4.98	07/01/1989
<b>International Equity: Emerging Market</b>										
MSCI Emerging Markets (Net)	4.00	0.66	6.41	-12.05	-1.56	-3.78	3.80	3.54	8.68	01/01/2001
S&P Emerging BMI	3.94	1.66	6.14	-11.57	-0.44	-2.83	4.44	4.76	7.12	01/01/1998
S&P Emerging LargeMidCap	3.97	1.59	6.68	-11.73	-0.40	-2.95	4.06	4.43	7.08	01/01/1998

# Summit Strategies Group

Index Report

June 30, 2016

	1 Month	3 Month	CYTD	1 Year	3 Year	5 Year	7 Year	10 Year	Since Inception	Inception Date
S&P Emerging SmallCap	3.77	2.02	3.22	-10.60	-0.57	-2.15	6.44	6.81	7.45	01/01/1998
<b>International Equity: Developed Market, Country Specific</b>										
MSCI Australia	0.13	0.53	2.68	-4.30	-0.15	-0.36	7.29	4.89	8.73	01/01/1970
MSCI Austria	-7.89	-9.66	-10.12	-12.48	-6.73	-10.76	-3.30	-8.90	7.20	01/01/1970
MSCI Belgium	-1.01	2.81	0.33	5.31	13.46	12.26	14.26	2.32	11.59	01/01/1970
MSCI Canada	0.45	3.61	15.51	-5.52	0.82	-2.06	4.93	3.20	9.18	01/01/1970
MSCI Denmark	-4.21	-0.49	-1.05	3.06	18.13	12.39	15.66	10.74	13.33	01/01/1970
MSCI Finland	-0.76	-1.00	-5.86	-2.49	11.50	4.11	5.07	1.07	10.42	01/01/1982
MSCI France	-5.69	-3.53	-3.33	-7.90	2.83	0.07	5.59	1.33	9.59	01/01/1970
MSCI Germany	-5.65	-4.98	-7.28	-11.01	1.80	0.72	7.34	3.90	9.41	01/01/1970
MSCI Greece	-25.10	-13.89	-24.42	-60.67	-36.27	-35.70	-33.04	-27.50	-2.45	01/01/1988
MSCI Hong Kong	0.89	0.94	0.38	-10.78	5.69	4.94	9.05	7.59	14.39	01/01/1970
MSCI Ireland	-11.61	-9.85	-13.39	-10.18	10.58	8.74	7.96	-7.02	4.27	01/01/1988
MSCI Italy	-9.02	-9.67	-20.21	-25.35	-0.28	-6.45	-2.26	-5.60	4.74	01/01/1970
MSCI Japan	-2.44	1.03	-5.41	-8.64	3.00	4.45	5.13	0.33	8.98	01/01/1970
MSCI Netherlands	-6.23	-4.79	-1.57	-7.40	6.55	5.24	9.63	4.15	11.75	01/01/1970
MSCI New Zealand	3.51	5.86	18.58	30.85	11.09	10.19	14.62	7.83	11.79	01/01/1982
MSCI Norway	-1.99	3.12	5.00	-15.30	-6.39	-4.22	4.77	0.17	10.13	01/01/1970
MSCI Portugal	-2.23	-1.94	1.24	-6.41	-10.34	-11.75	-6.21	-5.88	1.40	01/01/1988
MSCI Singapore	4.37	0.36	5.43	-11.48	-1.94	-0.71	6.62	6.36	11.75	01/01/1970
MSCI Spain	-9.85	-7.44	-11.13	-22.90	0.31	-5.29	-1.42	-0.27	8.17	01/01/1970
MSCI Sweden	-4.42	-4.61	-4.47	-11.08	1.27	1.25	10.27	5.28	12.90	01/01/1970
MSCI Switzerland	-0.60	2.47	-2.77	-7.67	4.18	5.69	10.97	5.91	11.25	01/01/1970
MSCI United Kingdom	-3.59	-0.72	-3.02	-12.09	0.72	1.75	6.84	1.47	9.58	01/01/1970
<b>International Equity: Emerging Market, Country Specific</b>										
MSCI Argentina	3.04	7.46	16.48	7.37	31.72	-0.79	11.98	3.42	14.92	01/01/1988

# Summit Strategies Group

Index Report

June 30, 2016

	1 Month	3 Month	CYTD	1 Year	3 Year	5 Year	7 Year	10 Year	Since Inception	Inception Date
MSCI Brazil	19.50	13.93	46.50	-5.75	-8.67	-12.95	-3.88	1.58	14.27	01/01/1988
MSCI Chile	6.32	2.51	16.09	-0.64	-9.32	-10.46	0.28	4.83	14.09	01/01/1988
MSCI China	1.23	0.28	-4.53	-23.20	3.62	-0.24	3.09	7.48	-0.03	01/01/1993
MSCI Colombia	9.46	2.85	25.98	-12.38	-16.99	-10.83	2.06	6.75	11.54	01/01/1993
MSCI Czech Republic	-2.13	-3.60	1.34	-16.06	-1.89	-9.64	-2.47	0.34	8.94	01/01/1995
MSCI Egypt	-5.67	0.95	-4.90	-23.70	8.13	0.95	0.40	3.33	13.05	01/01/1995
MSCI Hungary	-3.05	-4.67	11.82	20.46	-0.48	-7.05	1.74	-1.86	9.74	01/01/1995
MSCI India	1.33	3.72	1.13	-6.54	7.13	-0.44	4.87	6.32	8.40	01/01/1993
MSCI Indonesia	9.56	4.45	16.25	6.53	-4.62	-1.82	10.54	11.77	10.31	01/01/1988
MSCI Israel	-1.48	-3.63	-13.33	-10.58	9.08	0.02	2.96	5.25	7.54	04/01/1995
MSCI Jordan	-2.55	1.46	-4.34	-3.74	-2.26	-3.81	-5.78	-6.75	2.39	01/01/1988
MSCI Korea	4.11	-1.21	3.94	-3.09	1.31	-2.20	7.87	3.42	6.34	01/01/1988
MSCI Malaysia	4.21	-5.93	6.53	-6.04	-8.03	-2.79	6.68	7.93	7.22	01/01/1988
MSCI Mexico	1.15	-6.94	0.97	-12.05	-5.80	-2.24	6.27	4.61	17.09	01/01/1988
MSCI Morocco	-2.29	3.29	12.46	5.84	0.23	-7.22	-4.63	1.94	8.20	01/01/1995
MSCI Pakistan	5.55	14.58	14.06	-1.33	8.56	11.94	17.31	4.83	7.24	01/01/1993
MSCI Peru	11.02	18.19	50.13	8.30	4.01	0.51	7.64	11.34	14.44	01/01/1993
MSCI Philippines	4.65	5.91	13.56	1.55	6.65	14.17	18.80	16.59	8.62	01/01/1988
MSCI Poland	-2.49	-17.32	-5.84	-26.62	-9.21	-10.80	1.44	-2.52	5.04	04/01/1995
MSCI Russia	2.48	4.19	20.61	-0.87	-7.86	-10.24	1.04	-4.92	9.84	01/01/1995
MSCI South Africa	7.70	1.71	15.90	-15.51	0.76	-1.75	5.75	5.09	6.58	04/01/1995
MSCI Taiwan	4.83	1.00	8.80	-7.95	4.90	2.45	8.72	5.31	6.01	01/01/1988
MSCI Thailand	1.93	2.92	20.45	-6.77	-2.84	3.56	12.69	10.78	7.73	01/01/1988
MSCI Turkey	1.96	-7.65	12.38	-9.75	-9.81	-4.62	3.37	3.55	8.77	01/01/1988
<b>US Fixed Income</b>										
Barclays US Universal Index	1.76	2.53	5.68	5.82	4.20	4.01	5.04	5.30	6.51	01/01/1990
Barclays Aggregate	1.80	2.21	5.31	6.00	4.06	3.76	4.58	5.13	7.72	01/01/1976

## Summit Strategies Group

Index Report

June 30, 2016

	1 Month	3 Month	CYTD	1 Year	3 Year	5 Year	7 Year	10 Year	Since Inception	Inception Date
Barclays Intermediate Aggregate	1.23	1.44	3.78	4.36	3.24	2.96	3.91	4.66	7.48	01/01/1976
Barclays US Treasury	2.21	2.10	5.37	6.22	3.51	3.53	3.79	4.86	7.39	01/01/1973
Barclays US Treasury: US TIPS	2.08	1.71	6.24	4.35	2.31	2.63	4.31	4.76	5.70	03/01/1997
Barclays US Government/Credit	2.20	2.67	6.23	6.70	4.20	4.11	4.82	5.22	7.50	01/01/1973
Barclays Intermediate US Government/Credit	1.43	1.59	4.07	4.33	2.95	2.90	3.78	4.48	7.21	01/01/1973
Barclays US Government	2.14	2.04	5.22	6.04	3.45	3.38	3.65	4.73	7.37	01/01/1973
Barclays US Agency	1.19	1.22	3.28	3.71	2.66	2.33	2.78	4.05	7.30	01/01/1976
Barclays US Credit Index	2.28	3.48	7.54	7.55	5.26	5.20	6.65	6.11	6.58	01/01/1992
Barclays US Mortgage Backed Securities	0.81	1.11	3.10	4.34	3.76	3.01	3.74	4.96	7.78	01/01/1976
Barclays US Corp: High Yield	0.92	5.52	9.06	1.62	4.18	5.84	9.99	7.56	8.94	07/01/1983
BofAML Convertible Bonds, All Qualities	-0.15	3.50	0.36	-5.16	7.88	7.66	11.39	7.23	9.18	01/01/1988
BofA Merrill Lynch High Yield Master II	1.08	5.88	9.32	1.71	4.18	5.71	9.95	7.44	8.34	09/01/1986
BofA Merrill Lynch 1-3 Year Treasury	0.60	0.53	1.43	1.31	0.98	0.81	1.15	2.46	6.23	01/01/1978
90 Day US Treasury Bill	0.04	0.06	0.12	0.13	0.07	0.07	0.09	1.01	3.60	01/01/1926
CPI - All Urban Consumers	0.22	0.84	0.79	1.05	1.07	1.31	1.59	1.75	2.89	01/01/1926
<b>International Fixed Income</b>										
Citigroup World Government Bond	3.69	3.41	10.74	11.26	2.65	1.18	2.73	4.22	7.46	01/01/1985
Citigroup World Government Bond Hedged	2.36	2.79	6.71	8.84	5.71	5.11	4.51	4.97	7.00	01/01/1985
<b>Real Estate</b>										
FTSE NAREIT Composite REIT	6.72	7.54	13.72	22.72	12.84	12.02	19.82	6.74	9.90	01/01/1972
FTSE NAREIT Equity REIT Index	6.98	6.96	13.38	24.04	13.58	12.60	20.65	7.45	12.18	01/01/1972
FTSE EPRA/NAREIT Developed Index	3.75	3.74	9.38	12.57	8.94	8.62	14.13	5.00	7.78	01/01/1990
NCREIF Fund Index-ODCE (VW)	-	2.13	4.36	11.82	13.00	12.72	10.88	6.17	8.75	01/01/1978
NCREIF Property Index	-	2.03	4.29	10.64	11.61	11.52	10.28	7.41	9.32	01/01/1978
NCREIF Timberland Index	-	0.98	0.72	3.39	7.73	6.70	4.27	6.39	12.23	04/01/1987

## Summit Strategies Group

Index Report

June 30, 2016

	1 Month	3 Month	CYTD	1 Year	3 Year	5 Year	7 Year	10 Year	Since Inception	Inception Date
<b>Real Assets</b>										
S&P GSCI Composite Index	0.08	12.67	9.86	-26.08	-19.81	-14.03	-7.95	-10.18	7.06	01/01/1970
Bloomberg Commodity Index Total Return	4.13	12.76	13.23	-13.34	-10.56	-10.83	-4.41	-5.59	2.53	02/01/1991
S&P North American Natural Resources Sector	3.57	12.51	19.56	-5.56	-2.24	-3.13	4.88	1.98	7.13	09/01/1996
Alerian MLP	5.13	19.70	14.71	-13.11	-5.38	3.24	12.13	9.46	14.20	01/01/1996
<b>Hedge Fund</b>										
Credit Suisse/Tremont Hedge Fund Index	-0.10	0.60	-1.60	-4.22	2.50	2.88	5.33	4.17	7.79	01/01/1994
HFRI Fund of Funds Composite Index	-0.54	0.51	-2.62	-5.44	1.90	1.62	2.77	1.58	6.65	01/01/1990
HFRI FOF: Conservative Index	-0.37	0.66	-1.43	-3.20	1.98	1.94	2.84	1.38	5.81	01/01/1990
HFRI ED: Distressed/Restructuring	0.34	5.18	3.49	-5.35	0.10	2.16	6.08	3.42	10.59	01/01/1990
HFRI Equity Hedge (Total)	-0.48	1.28	-0.51	-5.11	3.01	2.24	4.76	2.92	11.45	01/01/1990
HFRI EH: Equity Market Neutral	0.21	-0.19	0.33	2.46	3.76	2.66	2.69	2.07	6.42	01/01/1990
HFRI Event-Driven (Total)	-0.05	2.96	2.23	-3.73	2.03	2.74	5.98	3.93	10.43	01/01/1990
HFRI Macro (Total)	2.29	1.29	2.87	1.93	2.53	0.91	1.85	3.40	10.73	01/01/1990

## Glossary

<u>Term</u>	<u>Description</u>
Simple Alpha (Excess or Relative Return)	The arithmetic difference between the portfolio's return and the benchmark's return.
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.
Asset Allocation Effect	In attribution analysis, the incremental return attributable to diverging from the target weights of the policy benchmark holding all other factors constant.
Beta	Also called systematic risk or non-diversifiable risk, beta measures the sensitivity of asset returns to the market (benchmark). In isolation a lower beta is considered less risky but does not distinguish between upside and downside risk.
Consistency	The percentage of periods 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.
Down Market Capture	The ratio of average portfolio return over the benchmark during periods of negative benchmark return. Lower values indicate better product performance.
Excess Risk	A measure of the standard deviation of a portfolio's performance relative to the risk free return.
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. Negative Information Ratios are difficult to interpret.
Manager Value-Added (Selection Effect)	In attribution analysis, the incremental return attributable to active management; the result of diverging from the benchmark allocation within a given asset class.
Market Timing / Other	In attribution analysis, represents the impact of intra-period shifts in asset allocation. For example a rapidly appreciating asset could have markedly different weights throughout the analysis period (which looks at fixed points in time).



## Glossary

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R-Squared	The percentage of portfolio performance explained by the performance of its benchmark; measured on a scale of 0 to 100, with 100 indicating that the portfolio's performance is entirely determined by the benchmark.
Sharpe Ratio	Also called the reward-to-variability ratio, Sharpe Ratio measures the absolute rate of return per unit of risk and is calculated as the Excess Return vs. the Risk Free Rate divided by the standard deviation of the Excess Return. Investors prefer higher Sharpe Ratios (more return per unit of risk).
Standard Deviation	Typically referred to as Volatility or Risk, standard deviation measures the dispersion of actual returns around their average.
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). Represents the excess rate of return over the risk free rate divided by the beta. 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.
Up Market Capture	The ratio of average portfolio return over the benchmark during periods of positive benchmark return. Higher values indicate better product performance.

## DISCLAIMER

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**Equity Portfolio Transition Summary**

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

*August 12, 2016*

## TRANSITION PRE-TRADE VS. POST-TRADE COMPARISON

The pre-trade explicit costs (commission and taxes/exchange fees) estimated by Northern Trust as of 7/5/16 (after WEDGE chose to accept in-kind funding in lieu of cash) ended very close to the actual, realized costs. The difference in estimated explicit costs vs. the realized post-trade costs results from changes in manager holdings between the pre- and post-trade analysis.

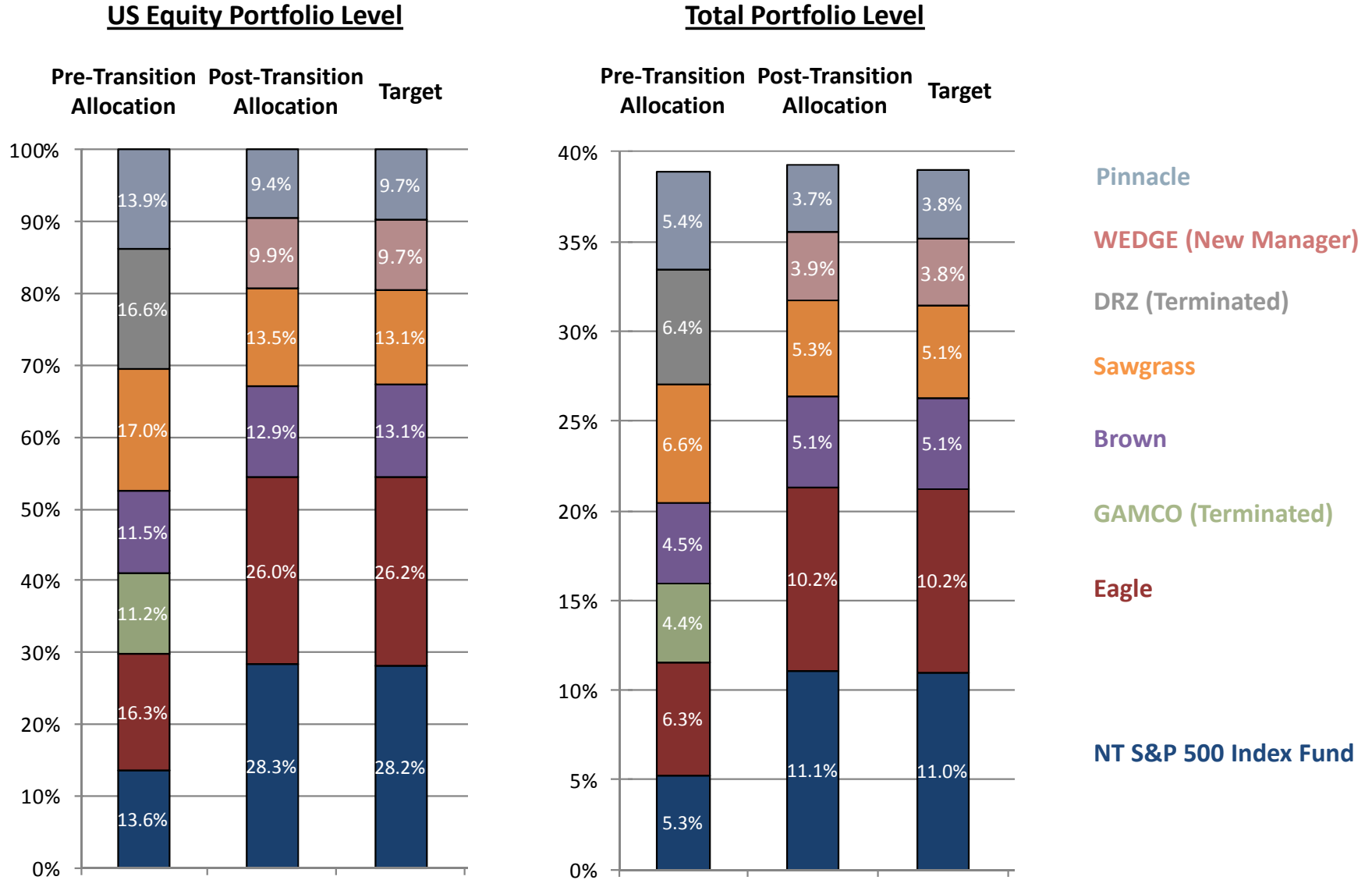
The realized implicit costs (bid/ask spread and market impact) came in significantly below pre-trade estimates, indicating that more external cross transfers were able to be utilized by Northern Trust or narrower bid/ask spreads allowed for better execution.

In short, the overall trade was executed better than estimated by Northern Trust prior to the transition, resulting in cost savings for the Fund. In aggregate, the entire transition was executed at a cost of 21 bps.

	Pre-Trade (analysis as of 7/5/16)*	Post-Trade (analysis as of 7/19/16)*	Difference
Commission	\$81,843	\$82,555	\$712
<i>Commission Per Share</i>	<i>0.80¢</i>	<i>0.80¢</i>	---
Taxes & Exchange Fees	\$3,425	\$3,630	\$205
<b>Total Explicit Costs</b>	<b>\$85,268</b>	<b>\$86,185</b>	<b>\$917</b>
Bid/Ask Spread	\$164,813	\$111,525	-\$53,288
Market Impact	\$274,985	\$280,530	\$5,545
<b>Total Implicit Costs</b>	<b>\$439,798</b>	<b>\$392,055</b>	<b>-\$47,743</b>
<b>Grand Total (\$)</b>	<b>\$525,066</b>	<b>\$478,240</b>	<b>-\$46,826</b>
<b>Grand Total (bps)</b>	<b>23 bps</b>	<b>21 bps</b>	<b>-2 bps</b>

\*Pre-trade analysis updated as of 7/5/16 after WEDGE decided to accept in-kind funding; post-trade pricing and analysis as of transition commencement on 7/19/16. Explicit cost estimates may not match due to manager holdings changes in between dates.

**ASSET ALLOCATION (PRE- AND POST-TRANSITION)\***



\*Pre-transition allocation as of 6/30/16; post-transition allocation as of transition conclusion on 7/21/16.

Note: 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.