



Board of Administration Agenda

REGULAR MEETING

TUESDAY, MARCH 10, 2020

TIME: 10:00 A.M.

MEETING LOCATION:

LACERS Ken Spiker Boardroom
202 West First Street, Suite 500
Los Angeles, California 90012-4401

Live Board Meetings can be heard at: (213) 621-CITY (Metro), (818) 904-9450 (Valley), (310) 471-CITY (Westside), and (310) 547-CITY (San Pedro Area).

Sign Language Interpreters, Communication Access Real-Time Transcription, Assistive Listening Devices, or other auxiliary aids and/or services may be provided upon request. To ensure availability, you are advised to make your request at least 72 hours prior to the meeting you wish to attend. Due to difficulties in securing Sign Language Interpreters, five or more business days' notice is strongly recommended. For additional information, please contact: Board of Administration Office at (213) 473-7169.

President:	Cynthia M. Ruiz
Vice President:	Michael R. Wilkinson
Commissioners:	Annie Chao Elizabeth Lee Sandra Lee Nilza R. Serrano Sung Won Sohn
Manager-Secretary:	Lita Payne
Executive Assistant:	Ani Ghokassian
Legal Counsel:	City Attorney's Office Public Pensions General Counsel Division

Notice to Paid Representatives

If you are compensated to monitor, attend, or speak at this meeting, City law may require you to register as a lobbyist and report your activity. See Los Angeles Municipal Code §§ 48.01 *et seq.* More information is available at ethics.lacity.org/lobbying. For assistance, please contact the Ethics Commission at (213) 978-1960 or ethics.commission@lacity.org.

[CLICK HERE TO ACCESS BOARD REPORTS](#)

- I. PUBLIC COMMENTS ON MATTERS WITHIN THE BOARD'S JURISDICTION
- II. [APPROVAL OF MINUTES FOR REGULAR BOARD MEETING OF FEBRUARY 25, 2020 AND POSSIBLE BOARD ACTION](#)
- III. BOARD PRESIDENT VERBAL REPORT
- IV. GENERAL MANAGER VERBAL REPORT
 - A. REPORT ON DEPARTMENT OPERATIONS
 - B. UPCOMING AGENDA ITEMS
- V. RECEIVE AND FILE ITEMS

- A. [BENEFITS PAYMENTS APPROVED BY GENERAL MANAGER](#)
- B. [MARKETING CESSATION REPORT NOTIFICATION TO THE BOARD](#)
- C. [EDUCATION AND TRAVEL EXPENDITURE REPORT FOR THE QUARTER ENDING DECEMBER 31, 2019](#)

VI. BOARD/DEPARTMENT ADMINISTRATION

- A. [977 N. BROADWAY PROPERTY BUDGET AND POSSIBLE BOARD ACTION](#)

VII. INVESTMENTS

- A. CHIEF INVESTMENT OFFICER VERBAL REPORT
- B. RECOGNITION OF SERVICE FOR JENNIFER STEVENS OF THE TOWNSEND GROUP
- C. [PRESENTATIONS BY STAFF ON CRYPTOCURRENCY AND PROFESSOR BHASKAR KRISHNAMACHARI, UNIVERSITY OF SOUTHERN CALIFORNIA, ON BLOCKCHAIN TECHNOLOGY](#)
- D. [IMPLEMENTATION OF PRIVATE EQUITY INVESTMENT MANAGEMENT – CO-INVESTMENT](#)
- E. [PRESENTATION BY NEPC, LLC OF THE PORTFOLIO PERFORMANCE REVIEW REPORT FOR THE QUARTER ENDING DECEMBER 31, 2019](#)

VIII. RETIREMENT SERVICES

- A. [DELEGATION OF SUBPOENA REQUEST AUTHORITY FOR UNRECOVERED FUNDS CASES](#)

IX. DISABILITY RETIREMENT APPLICATION(S)

- A. ADOPTION OF FINDINGS OF FACT FOR AZAR NEJAD AND POSSIBLE BOARD ACTION
- B. **CLOSED SESSION PURSUANT TO GOVERNMENT CODE SECTION 54957(b) TO CONSIDER THE DEFERRAL REQUEST FOR DISABILITY RETIREMENT APPLICATION OF VIVECA BUTLER AND POSSIBLE BOARD ACTION**
- C. **CLOSED SESSION PURSUANT TO GOVERNMENT CODE SECTION 54957(b) TO CONSIDER THE DISABILITY RETIREMENT APPLICATION OF NADINE WARREN AND POSSIBLE BOARD ACTION**

X. LEGAL/LITIGATION

**A. CLOSED SESSION PURSUANT TO GOVERNMENT CODE SECTION 54956.9(D)(4)
TO CONFER WITH AND RECEIVE ADVICE FROM LEGAL COUNSEL REGARDING
INITIATION OF LITIGATION (ONE CASE) AND POSSIBLE BOARD ACTION**

XI. OTHER BUSINESS

XII. NEXT MEETING: The next Regular meeting of the Board is scheduled for Tuesday, March 24, 2020 at 10:00 a.m. in the LACERS Ken Spiker Boardroom, 202 West First Street, Suite 500, Los Angeles, CA 90012-4401.

XIII. ADJOURNMENT

MINUTES OF THE REGULAR MEETING
BOARD OF ADMINISTRATION
LOS ANGELES CITY EMPLOYEES' RETIREMENT SYSTEM

LACERS Ken Spiker Boardroom
202 West First Street, Fifth Floor
Los Angeles, California

February 25, 2020

10:01 a.m.

Agenda of: Mar. 10, 2020

Item No: II

PRESENT:	President:	Cynthia M. Ruiz
	Vice President:	Michael R. Wilkinson
	Commissioners:	Annie Chao Elizabeth Lee Nilza R. Serrano Sung Won Sohn
	Manager-Secretary:	Lita Payne
	Executive Assistant:	Ani Ghoukassian
	Legal Counsel:	Anya Freedman
ABSENT:	Commissioner:	Sandra Lee

The Items in the Minutes are numbered to correspond with the Agenda.

I

PUBLIC COMMENTS ON MATTERS WITHIN THE BOARD'S JURISDICTION – President Ruiz asked if there were any persons who wished to speak on matters within the Board's jurisdiction, to which there was no response and no public comment cards were received.

II

APPROVAL OF MINUTES FOR REGULAR BOARD MEETING OF FEBRUARY 11, 2020 AND POSSIBLE BOARD ACTION – Commissioner Chao moved approval, seconded by Commissioner Serrano, and adopted by the following vote: Ayes, Commissioners Chao, Elizabeth Lee, Serrano, Sohn, Vice President Wilkinson, and President Ruiz -6; Nays, None.

III

BOARD PRESIDENT VERBAL REPORT – President Ruiz stated that she attended the PPI 2020 Winter Roundtable at the Langham in Pasadena.

IV

GENERAL MANAGER VERBAL REPORT

- A. REPORT ON DEPARTMENT OPERATIONS – Lita Payne, Executive Officer, discussed the following items:
- Mayor’s Executive Directive #25 – LA’s Green New Deal: Leading by Example
 - On track to move first group of 25 staff to new LACERS HQ
 - Retiree health plan year 2020 confirmation statements will be sent to participating members in early March
 - Wellness Extravaganza on February 12th in Monrovia had 183 attendees
 - Wellness Program Manager interviews were held with eight candidates
 - LACERS is reviewing the new tax requirements from the Secure Act
- B. LACERS WEBSITE DEMO – Taneda Larios, Senior Management Analyst II with Health Benefits Administration & Communications Division, presented a demo of the new LACERS website to the Board.
- C. CONTINUANCE METHODOLOGY CHANGE AND LACERS INFO BULLETIN – Lita Payne, Executive Officer, provided the Board a briefing on the Continuance Methodology Change. The Board provided staff with direction.
- D. UPCOMING AGENDA ITEMS – Ms. Payne stated the following items will be on an upcoming Board agenda:
- Blockchain technology primer from a guest speaker
 - Initial Capital Expense Program related to new LACERS HQ
- E. RECOGNITION OF SERVICE FOR LUCY ARTINIAN – Lita Payne, Executive Officer, recognized Lucy Artinian’s 37 years of City service.

V

RECEIVE AND FILE ITEMS

- A. MONTHLY REPORT ON SEMINARS AND CONFERENCES FOR JANUARY 2020 – This report was received by the Board and filed.
- B. OPEN ENROLLMENT CLOSEOUT REPORT – This report was received by the Board and filed.

VI

CONSENT AGENDA

- A. TRAVEL AUTHORITY – COMMISSIONER NILZA SERRANO; HARVARD KENNEDY SCHOOL EXECUTIVE EDUCATION – LEADERSHIP DECISION MAKING; OPTIMIZING ORGANIZATIONAL PERFORMANCE PROGRAM, CAMBRIDGE, MASSACHUSETTS; JUNE 7-12, 2020 AND POSSIBLE BOARD ACTION – Vice President Wilkinson moved approval of the following Resolution:

**TRAVEL AUTHORITY
HARVARD KENNEDY SCHOOL EXECUTIVE EDUCATION
LEADERSHIP DECISION MAKING; OPTIMIZING ORGANIZATIONAL PERFORMANCE
JUNE 7-12, 2020
CAMBRIDGE, MASSACHUSETTS**

RESOLUTION 200225-A

WHEREAS, Board approval is required for all international travel requests and travel not included in the Approved List of Educational Seminars;

WHEREAS, the Harvard Kennedy School Executive Education: Leadership Decision Making; Optimizing Organizational Performance program in Cambridge, Massachusetts is not included in the Approved List of Educational Seminars for Fiscal Year 2019-20, and exceeds the annual education travel budget of \$10,000.00, and therefore requires individual approval;

WHEREAS, the sound management of the assets and liabilities of a trust fund imposes a continuing need for all Board Members to attend professional and educational conferences, seminars, and other educational events that will better prepare them to perform their fiduciary duties;

THEREFORE, BE IT RESOLVED, that Commissioner Serrano is hereby authorized to attend the Harvard Kennedy School Executive Education: Leadership Decision Making; Optimizing Organizational Performance program from June 7-12, 2020 in Cambridge, Massachusetts;

BE IT FURTHER RESOLVED, that the reimbursement of up to \$10,459.25 is hereby authorized for reasonable expenses in connection with participation.

Which motion was seconded by Commissioner Sohn, and adopted by the following vote: Ayes, Commissioners Chao, Elizabeth Lee, Serrano, Sohn, Vice President Wilkinson, and President Ruiz -6; Nays, None.

VII

BOARD/DEPARTMENT ADMINISTRATION

- A. ACTUARIAL RISK ASSESSMENT AND REVIEW OF FUNDED STATUS OF THE RETIREMENT AND HEALTH PLANS AS OF JUNE 30, 2019 – Todd Bouey, Assistant General Manager and Paul Angelo, Actuary with Segal Consulting presented this item to the Board and discussed the report findings for one hour. The report was received by the Board and filed.
- B. REQUEST FOR PROPOSALS FOR EXTERNAL AUDIT SERVICES AND POSSIBLE BOARD ACTION – Commissioner Chao moved approval, seconded by Vice President Wilkinson and adopted by the following vote: Ayes, Commissioners Chao, Elizabeth Lee, Serrano, Sohn, Vice President Wilkinson, and President Ruiz -6; Nays, None.

VIII

- A. INVESTMENT COMMITTEE VERBAL REPORT ON THE REGULAR MEETING OF FEBRUARY 11, 2020 – Commissioner Sohn stated the Committee approved a contract with

AEGON U.S.A. Investment Management and approved staff's recommendation of the Semi-Finalists of the Active Emerging Market Debt Investment Manager Search.

IX

INVESTMENTS

- A. CHIEF INVESTMENT OFFICER VERBAL REPORT – Rod June, Chief Investment Officer, reported on the portfolio value, \$18.784 Billion as of February 24, 2020. Mr. June discussed the following items:
- Staff is making adjustments on the PRI Action Plan
 - Ellen Chen, Investment Officer I, attended Pension Bridge ESG Conference
 - Rod June attending the ESG-IQ Conference on February 26
 - Wilkin Ly, Investment Officer III, attending Texas Emerging Manager Conference on February 26
 - Rod June attending the SEO Emerging Manager Alternative Investment Conference on March 4
 - NASP's A Day of Education in Private Equity in Downtown Los Angeles on March 26
 - Future agenda items: Education on Blockchain Technology, staff report on Private Equity-Co-Investment Program, and Performance Review-Quarter Ending December 31, 2019
- B. INVESTMENT MANAGER CONTRACT WITH AEGON U.S.A. INVESTMENT MANAGEMENT, LLC REGARDING THE MANAGEMENT OF AN ACTIVE U.S. HIGH YIELD FIXED INCOME PORTFOLIO AND POSSIBLE BOARD ACTION – Commissioner Chao moved approval of the following Resolution:

**CONTRACT EXTENSION
AEGON USA INVESTMENT MANAGEMENT, LLC
ACTIVE U.S. HIGH YIELD FIXED INCOME
PORTFOLIO MANAGEMENT**

RESOLUTION 200225-B

WHEREAS, LACERS' current one-year contract extension with Aegon USA Investment Management, LLC (AUIM) for active U.S. high yield fixed income portfolio management expires on March 31, 2020; and,

WHEREAS, AUIM rebid for its mandate in the current High Yield Fixed Income and Hybrid High Yield Fixed Income/U.S. Floating Rate Bank Loan Mandate Search but was not advanced for Board consideration and contract award; and,

WHEREAS, a contract extension with AUIM will allow the fund to maintain a diversified exposure to the U.S. high yield fixed income market until a contract with the firm hired through the current search is executed; and,

WHEREAS, on February 25, 2020, the Board approved the Investment Committee's recommendation to approve a one-year contract extension with AUIM.

NOW, THEREFORE, BE IT RESOLVED, that the Executive Officer is hereby authorized to approve and execute a contract subject to satisfactory business and legal terms and consistent with the following services and terms:

<u>Company Name:</u>	Aegon USA Investment Management, LLC
<u>Service Provided:</u>	Active U.S. High Yield Fixed Income Portfolio Management
<u>Effective Dates:</u>	April 1, 2020 through March 31, 2021
<u>Duration:</u>	One year
<u>Benchmark:</u>	Bloomberg Barclays U.S. Corporate High Yield 2% Issuer Capped Index
<u>Allocation as of January 31, 2020:</u>	\$392 million

Which motion was seconded by Commissioner Serrano, and adopted by the following vote: Ayes, Commissioners Chao, Elizabeth Lee, Serrano, Sohn, Vice President Wilkinson, and President Ruiz -6; Nays, None.

C. CONSENT OF ASSIGNMENT OF TORREYCOVE CAPITAL PARTNERS LLC CONTRACT AND POSSIBLE BOARD ACTION – Commissioner Chao moved approval of the following Resolution:

CONSENT TO ASSIGN CONTRACT WITH TORREYCOVE CAPITAL PARTNERS LLC

RESOLUTION 200225-C

WHEREAS, LACERS has an existing contract with TorreyCove Capital Partners LLC (TorreyCove) for private equity consulting services; and,

WHEREAS, TorreyCove has entered into an acquisition agreement with Aksia LLC (Aksia), a privately held company that provides alternative investment research and portfolio advisory solutions to institutional investors; and,

WHEREAS, Aksia will acquire a 100% interest in TorreyCove; and,

WHEREAS, under the Investment Advisers Act of 1940, a change in control of an investment advisory firm is deemed to be a contract assignment that requires written consent of the client; and,

WHEREAS, staff has conducted appropriate due diligence on Aksia and its acquisition of TorreyCove.

NOW, THEREFORE, BE IT RESOLVED, that the Board hereby consents to the assignment of LACERS existing contract with TorreyCove to Aksia; and, authorizes the Executive Officer to approve and execute the necessary documents, subject to satisfactory business and legal terms.

Which motion was seconded by Commissioner Serrano, and adopted by the following vote: Ayes, Commissioners Chao, Elizabeth Lee, Serrano, Sohn, Vice President Wilkinson, and President Ruiz -6; Nays, None.

- D. TRAVEL AUTHORITY – EDUARDO PARK, INVESTMENT OFFICER II; RBC GLOBAL ASSET MANAGEMENT, ASHMORE INVESTMENT MANAGEMENT, AND LAZARD ASSET MANAGEMENT, LLC, LONDON, UK; MARCH 9-11, 2020, AND POSSIBLE BOARD ACTION – Commissioner Serrano moved approval of the following Resolution:

**TRAVEL AUTHORITY
DUE DILIGENCE OF EMERGING MARKET SMALL CAP EQUITIES MANDATE SEARCH;
EMERGING MARKET DEBT MANDATE SEARCH; ROUTINE DUE DILIGENCE ON EXISTING
LACERS MANAGER
MARCH 9-11, 2020
LONDON, UNITED KINGDOM**

RESOLUTION 200225-D

WHEREAS, Board approval is required for all international travel requests; and,

WHEREAS, the due diligence of the Emerging Market Small Cap Equities Mandate Search semi-finalist, RBC Global Asset Management; the due diligence of the Emerging Market Debt Mandate Search semi-finalist, Ashmore Investment Management; and routine due diligence on existing LACERS manager, Lazard Asset Management; requires international travel to London, United Kingdom, and therefore requires approval; and,

WHEREAS, the request to conduct due diligence conforms to the LACERS Strategic Plan Board Governance Goal of upholding good governance practices which affirm transparency, accountability, and fiduciary duty.

NOW, THEREFORE, BE IT RESOLVED, that Eduardo Park, Investment Officer II is hereby authorized to travel to London, United Kingdom to conduct due diligence of the Emerging Market Small Cap Equities Mandate Search semi-finalist, RBC Global Asset Management; due diligence of the Emerging Market Debt Mandate Search semi-finalist, Ashmore Investment Management; and routine due diligence on existing LACERS manager, Lazard Asset Management, on March 9-11, 2020 (travel dates March 7-12, 2020).

BE IT FURTHER RESOLVED, that the reimbursement of up to \$6,500 for Eduardo Park, Investment Officer II is hereby authorized for reasonable expenses in connection with participation and will be applied to the 2019-20 Fiscal Year budget.

Which motion was seconded by Commissioner Elizabeth Lee, and adopted by the following vote: Ayes, Commissioners Chao, Elizabeth Lee, Serrano, Sohn, Vice President Wilkinson, and President Ruiz -6; Nays, None.

- E. NOTIFICATION OF COMMITMENT OF UP TO \$40 MILLION IN KPS SPECIAL SITUATIONS FUND V, LP – This report was received by the Board and filed.

- F. NOTIFICATION OF COMMITMENT OF UP TO \$10 MILLION IN KPS SPECIAL SITUATIONS MID-CAP FUND, LP – This report was received by the Board and filed.
- G. NOTIFICATION OF COMMITMENT OF UP TO \$30 MILLION IN CLEARLAKE CAPITAL PARTNERS VI, LP – This report was received by the Board and filed.
- H. CORRECTION OF NOTIFICATION OF COMMITMENT OF UP TO €31.591 MILLION IN NREP NORDIC STRATEGIES FUND IV, LP SCSP AND POSSIBLE BOARD ACTION – Vice President Wilkinson moved approval of the following Resolution that rescinds Resolution 191022-D:

**AUTHORIZATION TO COMMIT
NREP NORDIC STRATEGIES FUND IV, LP SCSP**

RESOLUTION 200225-E

WHEREAS, NREP Nordic Strategies Fund IV, LP SCSP (Fund), a value add closed-end investment vehicle managed by NREP AB (NREP or GP) seeks to invest in logistics, student and senior housing, and serviced living real estate assets in Denmark, Finland, Norway, and Sweden; and,

WHEREAS, The Townsend Group, LACERS' Real Estate Consultant, has conducted extensive due diligence and has recommended that LACERS consider a commitment to the Fund to which staff, after a review of the consultant findings, concurs; and,

WHEREAS, such a commitment is consistent with LACERS' Real Estate Fiscal Year 2019-2020 Strategic Plan; and,

WHEREAS, on October 8, 2019, the Investment Committee, after reviewing staff's recommendation and hearing a presentation from staff, The Townsend Group, and the GP, directed staff to refer the fund commitment recommendation to the Board for consideration; and,

WHEREAS, on October 22, 2019, the Board authorized up to a \$35 million commitment to the Fund; and,

WHEREAS, on February 25, 2020, the Board amended the authorization to up to a €31.591 million commitment to the Fund to reflect the currency that the fund is denominated in.

NOW, THEREFORE, BE IT RESOLVED, that the Board hereby authorizes a commitment of up to €31.591 million to the Fund; and, authorizes the Executive Officer to approve and execute the necessary documents, subject to satisfactory business and legal terms.

Which motion was seconded by Commissioner Serrano, and adopted by the following vote: Ayes, Commissioners Chao, Elizabeth Lee, Serrano, Sohn, Vice President Wilkinson, and President Ruiz -6; Nays, None.

X

OTHER BUSINESS – Commissioner Serrano asked staff to email retirees regarding the Coronavirus outbreak.

XI

NEXT MEETING – The next Regular meeting of the Board is scheduled for Tuesday, March 10, 2020 at 10:00 a.m. in the LACERS Ken Spiker Boardroom, 202 West First Street, Suite 500, Los Angeles, CA 90012-4401.

XII

ADJOURNMENT – There being no further discussion before the Board, President Ruiz adjourned the meeting at 12:28 p.m.

Cynthia M. Ruiz
President

Lita Payne
Manager-Secretary

BENEFIT PAYMENTS APPROVED BY GENERAL MANAGER: ITEM V-A

Pursuant to the authority delegated to the General Manager under Board Rule GMA 1, General Manager Authorization, adopted by the Board of Administration on June 14, 2016, the following benefit payments have been approved by the General Manager:

SERVICE RETIREMENTS

<u>Member Name</u>	<u>Service</u>	<u>Department</u>	<u>Classification</u>
Alarcon, George A	30	PW - Sanitation	Ref Coll Truck Oper
Allen, Michael H	31	Dept. of Airports	Maint & Constr Helper
Alzner, Christiane	24	Dept. of Bldg. & Safety	Accounting Clerk
Badoud, Thomas N	11	Harbor Dept.	Audio Visual Tech
Bobo, C	30	City Attorney's Office	Asst City Attorney
Booth, James G	28	Dept. of Airports	Airport Police Ofcr
Breeher, Michael J	16	PW - Sanitation	W/Wtr Trmt Elec
Broussard, Stephen A	32	Fire Dept.	Accounting Clerk
Calderon, Lawrence M	14	Dept. of Airports	Maint & Constr Helper
Cam, Ben	6	City Planning Dept.	Graphics Designer
Casillas, Rafael	18	Personnel Dept.	Background Investgn Mgr
Chan, Pauline P	40	Library Dept.	Administrative Clerk
Chavez, Daniel F	39	City Attorney's Office	Hearing Ofcr City Atty
Chu, Judy Yuen Ling	34	Information Technology Agency	Info System Mgr
Cleveland, Shanulah	40	Harbor Dept.	Ch Clerk
Combs, Ronald A	35	PW - St. Maint.	St Svcs Supvr
Derrell, Owen	11	PW - Sanitation.	W/Wtr Coll Worker
Escobar, Jaime	30	GSD - Fleet Services	Heavy Duty Equip Mech
Frazier, Jacquelyn	33	Personnel Dept.	Physician I
Freyre, Bryan Thomas	25	PW - Resurf & Reconstr Div.	Equipmnt Operator
Gonzalez, Hector	18	LA Housing Dept.	Housing Inspector
Griffith, Julia A	3	Dept. of Airports	Airport Guide
Haro, Jorge Aguirre	15	LA Housing Dept.	Commun Info Rep
Hawkins, Carmen D	31	City Attorney's Office	Deputy City Atty
Hawks, Dennis R	30	PW - Contract Administration	Sr Electrcl Inspector
Ingram, Anna D	37	LACERS	Management Analyst
Kamikubo, Pinchieh	31	Dept. of Airports	Info System Mgr
Kim, Ofelia C	36	PW - Sanitation	Chemist
Kurt, Peter James	38	PW - Street Use Inspection	Sr St Svc Invest
Kyler, Ellyn	19	Police Dept.	Sr Administrative Clerk
Levin, Randi Suzanne	5	Information Technology Agency	G M Information Tech
Liefeld, Scott A	26	Fire Dept.	Equip Specialist
Masuo, Steven Takeshi	29	PW - Sanitation	Systems Programmer
Mcnabb, Christina	32	Police Dept.	Police Service Rep
Mejia, Silvia J	30	Dept. of Airports	Sr Mgmt Analyst
Middleton, Charles L	11	Harbor Dept.	Security Officer

Moultrie, Gerald	28	Dept. of Transportation	Traf Officer
Nuno, Gregory J	26	PW - Engineering	Landscape Arch Assc
Nurre, Thomas F	25	Dept. of Airports	Airport Police Ofcr
Obregon Jr, Martin	30	Dept. of Airports	Exec Asst Airports
Ongele, James Steven	19	Dept. of Bldg. & Safety	Deputy Supt Of Bldg
Orlich, Robert A	34	City Attorney's Office	Deputy City Atty
Ortiz, Alejandro	7	Dept. of Rec. & Parks	Special Prog Asst
Paredones, J Luz	34	Harbor Dept.	Maintenance Laborer
Pryor, Tony Anthony	19	Dept. of Transportation	Signal Sys Electrician
Quintana, Carlos R	30	Harbor Dept.	Sr Civil Engineer
Richmond, Diane	35	Harbor Dept.	Sr Administrative Clerk
Rimer, Thomas D	30	GSD - Fleet Services	Automotive Supervisor
Rister, Robbie Lee	12	PW - Sanitation	Heavy Duty Truck Oper
Ritter, Daniel L	35	Information Technology Agency	Commun Electrician
Robinson, Sonia Rene	35	Dept. of Rec.& Parks	Management Analyst
Romo, Juan R	33	Dept. of Airports	Equipmnt Operator
Sanchez, Ruben	33	Police Dept.	Forensic Prnt Spec
Takayama, Victor T	31	LA Housing Dept.	Sr Housing Inspector
Virgil, Gary J	20	Harbor Dept.	Port Electrical Mechanic
Weber, Diane M	37	Police Dept.	Sr Crime & Intel Anlst
Whipple, John P	17	Dept. of Bldg. & Safety	Ch Inspector
Wilsbacher, Anthony C	15	Dept. of Transportation	Transport Eng Assoc
Wooten, Bridgette D	23	City Planning Dept.	City Planner
Yanez, Sonia	20	City Attorney's Office	City Atty Investgtr
Ybarra, George	17	PW - Sanitation	Maintenance Laborer
Yee, Richard L	21	Dept. of Bldg. & Safety	Sr Plumbing Inspector

BENEFIT PAYMENTS APPROVED BY GENERAL MANAGER: ITEM V-A

Pursuant to the authority delegated to the General Manager under Board Rule GMA 1, General Manager Authorization, adopted by the Board of Administration on June 14, 2016, the following benefit payments have been approved by the General Manager:

Approved Death Benefit Payments

Deceased
TIER 1

Beneficiary/Payee

Adams, Donna

June M Adams Perry for the payment of the
Accrued But Unpaid Continuance Allowance

Andrews, Sheila Dussett

Mezon S Andrews for the payment of the
Accrued But Unpaid Service Retirement Allowance

Armstrong, Patricia,
Conservatee

Cynthia J Armstrong for the payment of the
Accrued But Unpaid Service Retirement Allowance
Burial Allowance

Arnold, Benny

Gloria Peterson for the payment of the
Accrued But Unpaid Service Retirement Allowance
Burial Allowance

Axelrad, Audrey

Thomas E Axelrad for the payment of the
Accrued But Unpaid Continuance Allowance
Accrued But Unpaid Service Retirement Allowance
Burial Allowance

Banks, Morris L Rhonda Rene Brand for the payment of the
Accrued But Unpaid Service Retirement Allowance
Burial Allowance

Beavers, Jacqueline L Steven Michael Beavers for the payment of the
Accrued But Unpaid Service Retirement Allowance
Burial Allowance

Bennett, June M Mary Elizabeth Nothafft for the payment of the
Accrued But Unpaid Continuance Allowance

Braff, Phelba L Roger W Braff for the payment of the
Accrued But Unpaid Continuance Allowance

Bratcher, James M Joanne Bratcher for the payment of the
Accrued But Unpaid Service Retirement Allowance
Burial Allowance

Brown Sr, Aaron Charles Alan Brown for the payment of the
Accrued But Unpaid Service Retirement Allowance

Burks, Otis Deedyre J Burks for the payment of the
Burial Allowance

Campbell, Shirley A Tyrone Leemar Campbell for the payment of the
Accrued But Unpaid Service Retirement Allowance
Burial Allowance

Carrico, Phillip E	Laura A Carrico for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance
Cascone, Louis	Eloisa Anna Cascone for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance
Chambers, Perlie M	Retha Perl Meredith for the payment of the Accrued But Unpaid Disability Continuance Allowance Accrued But Unpaid Disability Retirement Allowance Burial Allowance Vickie Darlene Booth for the payment of the Accrued But Unpaid Disability Continuance Allowance Accrued But Unpaid Disability Retirement Allowance Burial Allowance
Cuaresma, Lawrence G	Hermosa Beach Hope Chapel Foursquare Church for the payment of the Accrued But Unpaid Service Retirement Allowance Unused Contributions Patricia Lani Cuaresma for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance Unused Contributions
Detchmendy, James Morrow (Deceased Active)	Judith Ann Poindexter for the payment of the Accumulated Contributions
Figueroa, Dora W	Cynthia L Pacheco for the payment of the Accrued But Unpaid Continuance Allowance

Fischer, Barry Jay (Deceased Active)	Maria Antoinette Fischer for the payment of the Accumulated Contributions
Frechman, Robert	Kenneth P Frechman for the payment of the Burial Allowance Scott C Frechman for the payment of the Accrued But Unpaid Service Retirement Allowance
Garcia, Robert C	Martha A Garcia for the payment of the Burial Allowance
Gomez, Hope A	Daniel A Gomez for the payment of the Accrued But Unpaid Continuance Allowance
Goudlock, Ellen Marie	Tracie K Goudlock-Gorham for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance Troy Roberts for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance
Grubbs, Otis D	The Otis D Grubbs Trust, Stephen E Grubbs for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance
Harris, Raquel Nicole (Deceased Active)	Christopher Doyal Harris for the payment of the Accumulated Contributions

Harris, Timothy Arthur	Susan Lilian Harris for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance
Herring, Cynthia	Larry White for the payment of the Accrued But Unpaid Survivorship (Retirement) Allowance
Hughes, Duncan	Deborah Lynn Hughes for the payment of the Burial Allowance
Hunter, Gene R	Jean Bernetha Hawkins for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance Velda Lynette Smith for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance
Imai, Mary Kimie	Kathleen M Imai-Davis for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance
Jefferson, Roy	Albert J Jefferson Executor for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance
Johnson, William J	Barbara Stella Johnson for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance

Kent, Kikumon	Steven L Jones for the payment of the Accrued But Unpaid Disability Retirement Allowance Burial Allowance
Lovett, Major D	Alice Marie Lovett for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance
Marquez, Juan	Hilda A Marquez for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance Unused Contributions Laurie Goodman for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance Unused Contributions
Martinez, Marcelino M	Mary Lou Martinez for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance
Mauricio, Fruto G	Fevida Mauricio Crisostomo for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance
Miller, Anita D	Alicia Denchasy for the payment of the Accrued But Unpaid Service Retirement Allowance
Montgomery, Pauline	Donald Edward Watkins for the payment of the Accrued But Unpaid Continuance Allowance

Murray, Pearl D	Darnell Eugene Murray for the payment of the Accrued But Unpaid Continuance Allowance
Newman, Gary J	Amy Lynn Newman for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance Unused Contributions
Niles, Laurence E	Lily Niles for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance
Norton, Betty	Valerie A Neau for the payment of the Accrued But Unpaid Continuance Allowance
Payne, Howard K	Hannah J Conner for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance
Robinson, Shakira I (Deceased Active)	Rashad Emeen Nash for the payment of the Accumulated Contributions
Romaniuk, Zina S	Mary R Hanan for the payment of the Accrued But Unpaid Continuance Allowance
Sandoval, Gilbert A	Marlene A Sandoval for the payment of the Accrued But Unpaid Service Retirement Allowance Burial Allowance

Scott, William A Kathryn A. Scott for the payment of the
Accrued But Unpaid Service Retirement Allowance
Burial Allowance

Sheran, Lester D Daphne T. Sheran for the payment of the
Accrued But Unpaid Service Retirement Allowance
Burial Allowance

Sherman, Donald J Cordelia Sherman Harris for the payment of the
Accrued But Unpaid Service Retirement Allowance
Burial Allowance

Kolen Preston Sherman for the payment of the
Accrued But Unpaid Service Retirement Allowance
Burial Allowance

Lois Marie Hart for the payment of the
Accrued But Unpaid Service Retirement Allowance
Burial Allowance

Michael Lee Sherman for the payment of the
Accrued But Unpaid Service Retirement Allowance
Burial Allowance

Shon, Helen L Barry Vincent Lyou for the payment of the
Accrued But Unpaid Continuance Allowance

Debra Ann Uyeno for the payment of the
Accrued But Unpaid Continuance Allowance

Shores, James C Marsha E Shores for the payment of the
Accrued But Unpaid Service Retirement Allowance
Burial Allowance

Sinohue, Sally

David Sinohue for the payment of the
Accrued But Unpaid Service Retirement Allowance
Unused Contributions

Eric Ramos Sinohue for the payment of the
Accrued But Unpaid Service Retirement Allowance
Burial Allowance
Unused Contributions

Karlo D Alonso for the payment of the
Accrued But Unpaid Service Retirement Allowance
Burial Allowance
Unused Contributions

Solem, Gary D

Nancy K Solem for the payment of the
Accrued But Unpaid Service Retirement Allowance
Burial Allowance

Soriano, Orlando O

Luzviminda Ragasa Soriano for the payment of the
Accrued But Unpaid Disability Continuance Allowance

Starrels, Josine I

Ethan Mark Kline for the payment of the
Accrued But Unpaid Service Retirement Allowance
Burial Allowance

Sutton, Maurice R
(Deceased Active)

Raymond Sutton for the payment of the
Accumulated Contributions

Titterington, Shirley

David K Makiyama for the payment of the
Accrued But Unpaid Continuance Allowance

Pamela Makiyama for the payment of the
Accrued But Unpaid Continuance Allowance

Tolmasov, James A

Mary J Wilson for the payment of the
Accrued But Unpaid Service Retirement Allowance

Richard James Tolmasov for the payment of the
Accrued But Unpaid Service Retirement Allowance
Burial Allowance

Volpe, Kathleen

Paul Volpe for the payment of the
Accrued But Unpaid Continuance Allowance

Wright, Jean L

Keith V Wright for the payment of the
Accrued But Unpaid Continuance Allowance

TIER 3

Vanegas, Fredy
(Deceased Active)

Giovanny Andrew Vanegas (Minor Child) for the payment of
the
Accumulated Contributions

Welling, Joy Saturion
(Deceased Active)

Beth S Welling for the payment of the
Accumulated Contributions

Kent W Welling for the payment of the
Accumulated Contributions



Securing Your Tomorrows

Agenda of: MARCH 10, 2020

Item No: V-B

MARKETING CESSATION REPORT NOTIFICATION TO THE BOARD

The Board's Marketing Cessation Policy was adopted in order to prevent and avoid the appearance of undue influence on the Board or any of its Members in the award of investment-related and other service contracts. Pursuant to this Policy, this notification procedure has been developed to ensure that Board Members and staff are regularly apprised of firms for which there shall be no direct marketing discussions about the contract or the process to award it; or for contracts in consideration of renewal, no discussions regarding the renewal of the existing contract.

Firms listed in Attachments 1 and 2 are subject to limited communications with Board Members and staff pursuant to the Policy and will appear and remain on the list, along with the status, from the first publicized intention to contract for services through the award of the contract. Lists of current LACERS' contracts are on file in the Board office and are available upon request.

Attachments: 1) Contracts Under Consideration for Renewal
2) Active RFPs and RFQs

LOS ANGELES CITY EMPLOYEES' RETIREMENT SYSTEM CONTRACTS LIST
FOR THE MARCH 10, 2020 BOARD MEETING

CONTRACTS UNDER CONSIDERATION FOR RENEWAL

NO.	VENDOR / CONSULTANT	DESCRIPTION	INCEPTION DATE	EXPIRATION DATE	MARKETING CESSATION STATUS	RESTRICTED PERIOD*	
						START	END
CITY ATTORNEY							
1.	Foley & Lardner, LLP	Legal Services - Health & Data Privacy Law	Pending	Pending	Board Approved on 8/27/2019; Contract under review for execution.	05/27/2019	03/27/2020
2.	Hogan Marren Babbo & Rose, Ltd	Legal Services - Health & Data Privacy Law	Pending	Pending	Board Approved on 8/27/2019; Contract under review for execution.	05/27/2019	03/27/2020
3.	Orrick, Herrington & Sutcliff, LLP	Legal Services - Health & Data Privacy Law	Pending	Pending	Board Approved on 8/27/2019; Contract under review for execution.	05/27/2019	03/27/2020
4.	Polsinelli, LLP	Legal Services - Health & Data Privacy Law	Pending	Pending	Board Approved on 8/27/2019; Contract under review for execution.	05/27/2019	03/27/2020

LOS ANGELES CITY EMPLOYEES' RETIREMENT SYSTEM CONTRACTS LIST
FOR THE MARCH 10, 2020 BOARD MEETING

CONTRACTS UNDER CONSIDERATION FOR RENEWAL

NO.	VENDOR / CONSULTANT	DESCRIPTION	INCEPTION DATE	EXPIRATION DATE	MARKETING CESSATION STATUS	RESTRICTED PERIOD*	
						START	END
HEALTH BENEFITS ADMINISTRATION							
5.	Anthem 2020	Medical HMO & PPO	01/01/2020	12/31/2020	Board Approved on 8/28/2019; Contract under review for execution.	01/01/2020	12/31/2020
6.	Anthem Blue View Vision 2020	Vision Services Contract	01/01/2020	12/31/2020	Board Approved on 8/28/2019; Contract under review for execution.	01/01/2020	12/31/2020
7.	Delta Dental 2020	Dental PPO and HMO	01/01/2020	12/31/2020	Board Approved on 8/28/2019; Contract under review for execution.	01/01/2020	12/31/2020
8.	Kaiser 2020	Medical HMO	1/1/2020	12/31/2020	Board Approved on 8/28/2019; Contract under review for execution.	1/1/2020	12/31/2020
9.	SCAN 2020	Medical HMO	1/1/2020	12/31/2020	Board Approved on 8/28/2019; Contract under review for execution.	1/1/2020	12/31/2020

LOS ANGELES CITY EMPLOYEES' RETIREMENT SYSTEM CONTRACTS LIST
FOR THE MARCH 10, 2020 BOARD MEETING

CONTRACTS UNDER CONSIDERATION FOR RENEWAL

NO.	VENDOR / CONSULTANT	DESCRIPTION	INCEPTION DATE	EXPIRATION DATE	MARKETING CESSATION STATUS	RESTRICTED PERIOD*	
						START	END
10.	United Healthcare 2020	Medical HMO	1/1/2020	12/31/2020	Board Approved on 8/28/2019; Contract under review for execution.	1/1/2020	12/31/2020
INVESTMENTS							
11.	AEGON USA Investment Management, LLC	Active U.S. High Yield Fixed Income	04/01/2016	03/31/2020	Investment Committee to consider contract extension on 02/11/20.	02/07/2020	06/30/2020
12.	Dimensional Fund Advisors, LP	Active U.S. Treasury Inflation Protected Securities ("TIPS")	07/01/2014	06/30/2020	On 1/14/20 Investment Committee requested further info from staff before taking action.	01/10/2020	09/30/2020
13.	Dimensional Fund Advisors, LP	Active Non-U.S. Equities Emerging Markets Value	07/01/2014	06/30/2020	Board approved contract renewal on 1/28/20; negotiations in process.	01/10/2020	09/30/2020
14.	Neuberger Berman Fixed Income LLC	Active Core Fixed Income	7/1/2013	6/30/2020	Board approved contract extension on 2/26/2020; negotiations in process.	3/6/2020	12/30/2020

LOS ANGELES CITY EMPLOYEES' RETIREMENT SYSTEM CONTRACTS LIST
FOR THE MARCH 10, 2020 BOARD MEETING

CONTRACTS UNDER CONSIDERATION FOR RENEWAL

NO.	VENDOR / CONSULTANT	DESCRIPTION	INCEPTION DATE	EXPIRATION DATE	MARKETING CESSATION STATUS	RESTRICTED PERIOD*	
						START	END
15.	Principal Global Investors, LLC	Active U.S. Mid Cap Core Equities	07/01/2014	06/30/2020	Board approved contract renewal on 1/28/20; negotiations in process.	01/10/2020	09/30/2020
RETIREMENT SERVICES DIVISION							
16.	Mitchell International dba MCN	Disability Medical Evaluation Services	Pending	Pending	Board Approved on 8/13/2019; Contract under review for execution.	05/01/2019	03/28/2020

Start Date - The estimated start date of the restricted period is three (3) months prior to the expiration date of the current contract. No entertainment or gifts of any kind should be accepted from the restricted source as of this date. Firms intending to participate in the Request for Proposal process are also subject to restricted marketing and communications.

End Date - The estimated end date of the restricted period is three (3) months following the expiration date of the current contract. For investment-related contracts, the estimated end date is normally six (6 months) following the expiration of the current contract. For health carrier contracts, the estimated end date is normally one (1 year) following the expiration of the current contract. Estimated dates are based on contract negotiation periods from prior years.

LOS ANGELES CITY EMPLOYEES' RETIREMENT SYSTEM
CONTRACTS LIST FOR THE MARCH 10, 2020 BOARD MEETING

ACTIVE RFPs AND RFQs

NO.	DESCRIPTION	MARKETING CESSATION STATUS AND VENDOR RESPONSES
INVESTMENTS		
1	Core Fixed Income RFP	<p>RFP Release Date: August 19, 2019</p> <p>Submission Deadline: October 4, 2019</p> <p>Status: In progress</p> <p>List of Respondents: Amundi Pioneer Institutional Asset Management, Inc., Baird Advisors, BlackRock, Inc., BMO Global Asset Management, Brown Brothers Harriman & Co., C.S. McKee, L. P., Calvert Research and Management (Calvert or CRM), Conning, Dimensional Fund Advisors LP, Dodge & Cox, EARNEST Partners, LLC, FIAM LLC, Galliard Capital Management, Garcia Hamilton & Associates, L.P., Goldman Sachs Asset Management L.P., Guggenheim Partners Investment Management, LLC, Income Research & Management, Intergrity Fixed Income, Management, LLC, Invesco Advisers, Inc., J.P. Morgan Asset Management, Jennison Associates LLC, Lazard Asset Management LLC, LM Capital Group, LLC, Longfellow Investment Management Co., LLC, Loomis, Sayles & Company, L.P, Manulife Investment Management, MFS Institutional Advisors, Inc., Morgan Stanley Investment Management, National Investment Services, Neuberger Berman, Nuveen, LLC, Payden & Rygel, PGIM Fixed Income, Piedmont Investment Advisors, Inc., PIMCO, Princeton Asset Management, LLC, Progress Investment Management Company, LLC, Pugh Capital Management, Inc., Quadratic Capital Management LLC, Ramirez Asset Management, Schroder Investment Management North America Inc., Securian Asset Management, Inc., Segall Bryant & Hamill, Sit Investment Associates, Inc. (Sit), SLC Management, Smith Graham & Co., Investment Advisors, L.P., Sterling Capital Management LLC, T. Rowe Price Associates, Inc., TCW Group, Inc., The Capital Group Companies, Inc., Voya Investment Management (Voya IM), Wellington Management Company LLP, Wells Fargo Asset Management, Western Asset Management Company, LLC</p>
2	Emerging Market Debt Mandate Search	<p>RFP Release Date: June 19, 2019</p> <p>Submission Deadline: July 22, 2019</p> <p>Status: On February 11, 2020, the Investment Committee advanced four firms as semi-finalists: Ashmore Investment Management; Wellington Management Company LLP; PGIM Fixed Income, Schroder Investment Management North America Inc.</p> <p>List of Respondents: Eaton Vance Management, Ashmore Investment Management, Capital Group, Fidelity Institutional Asset Management, GAM USA, INC., Northwest Passage Capital Advisors LLC, Payden & Rygel, PGIM Fixed Income, Schroder Investment Management North America Inc., Stone Harbor Investment Partners LP, LM Capital Group, Wellington Management Company LLP, Manulife Investment Management, Global Evolution USA LLC, GoldenTree Asset Management LP, Goldman Sachs Asset Management L.P., Investec Asset Management, Nuveen, A TIAA Company</p>

LOS ANGELES CITY EMPLOYEES' RETIREMENT SYSTEM
CONTRACTS LIST FOR THE MARCH 10, 2020 BOARD MEETING

ACTIVE RFPs AND RFQs

NO.	DESCRIPTION	MARKETING CESSATION STATUS AND VENDOR RESPONSES
3	Emerging Market Small Cap Equities Mandate Search	<p>RFP Release Date: June 10, 2019</p> <p>Submission Deadline: July 22, 2019</p> <p>Status: In progress</p> <p>List of Respondents: LMCG Investments, LLC, AQR Capital Management, LLC, Dimensional Fund Advisors LP, EAM Investors, LLC, Ashmore, Cedar Street Asset Management LLC, Copper Rock Capital Partners, LLC, FIAM LLC, Macquarie Investment Management, RBC Global Management, Inc., Capital, River and Mercantile LLC, Schroder Investment Management North America Inc., Somerset Capital Management LLP, Wasatch Advisors, Inc., Kayne Anderson Rudnick Investment Management, Franklin Templeton Investments, Globeflex Capital, LP, Quantitative Management Associates, LLC, State Street Global Advisors Distributor, LLC</p>
4	High Yield Fixed Income and Hybrid High Yield Fixed Income / U.S. Floating Rate Bank Loan Mandate Search	<p>RFP Release Date: February 25, 2019</p> <p>Submission Deadline: Submission Deadline: April 12, 2019</p> <p>Status: On February 11, 2020, the Board awarded contracts to: High Yield Fixed Income - Loomis, Sayles & Company, L.P. Hybrid Fixed Income/Bank Loans - DDJ Capital Management, LLC Negotiations in process.</p> <p>List of Respondents: Ares Management LLC, Arena Capital Advisors, LLC, Guggenheim Partners Investment Management, LLC, Aegon Asset Management US, MacKay Shields LLC, Post Advisory Group, LLC, Diamond Hill Capital Management, Inc., AXA Investment Managers, Pacific Asset Management, Mesriow Financial Investment Management, Inc., DDJ Capital Management, LLC, Par-Four Investment Management, LLC, PGIM Fixed Income, Beach Point Capital Management LP, KKR Credit, Barrings LLC, Eaton Vance Management, Brigade Capital Management, LP, Morgan Stanley Investment Management, Lord, Abbett & Co. LLC, BlackRock, Inc., L & S Advisors, Inc., Mellon Investments Corporation, Seix Investment Advisors LLC, Legal & General Investment Management, Principal Global, Bain Capital Credit, LP, Princeton Asset Management, LLC, Symphony Asset Management, LLC, PIMCO, The Capital Group Companies, Inc., Loomis, Sayles & Company, L.P., Credit Suisse Asset Management, LLC, J.P. Morgan Asset Management, Hotchkis and Wiley Capital Management, LLC, Northern Trust, CVC Credit Partners, LLC</p>

LOS ANGELES CITY EMPLOYEES' RETIREMENT SYSTEM
CONTRACTS LIST FOR THE MARCH 10, 2020 BOARD MEETING

ACTIVE RFPs AND RFQs

NO.	DESCRIPTION	MARKETING CESSATION STATUS AND VENDOR RESPONSES
5	U.S. Small Cap Equities Mandate Search	<p>RFP Release Date: February 25, 2019</p> <p>Submission Deadline: April 12, 2019</p> <p>Status: On December 2, 2019, Investment Committee discussed advancing the following five firms as finalists: Core: Copeland Capital Management, LLC Growth: EAM Investors, LLC; Granahan Investment Management</p> <p>List of Respondents: 361 Capital, LLC, Aberdeen Standard Investments Inc., Acuitas Investments, LLC, Alliance Bernstein AB, Allianz Global Investors AllianzGI, AltraVue Capital, LLC, American Century Investment Management, Inc., AMI Asset Management Corporation, Anchor Capital Advisors LLC, Ariel Investments, LLC, Aristotle Capital Boston, LLC, Axiom Investors, Baron Capital, Barrow, Hanley, Mewhinney, Strauss, LLC, Bernzott Capital Advisors, Bivium Capital Partners, LLC, BlackRock, Inc., BMO Global Asset Management, BNP Paribas Asset Management USA Inc., Boston Advisors, LLC, Boston Partners Global Investors, Inc., Bridge City Capital, LLC, Cadence Capital Management LLC, Capital Impact Advisors, LLC, Capital Prospects LLC, Ceredex Value Advisors LLC, ClearBridge Investments, LLC, Copeland Capital Management, LLC, Dimensional Fund Advisors LP, Driehaus Capital Management LLC, Eagle Asset Management, EAM Investors, LLC, EARNEST Partners, LLC, Eastern Shore Capital Management, a Division of Moody Aldrich Partners, LLC, Eaton Vance Management, Elk Creek Partners LLC, Falcon Point Capital, LLC, Federated MDTA, LLC, FIAM LLC, Fisher Investments, Franklin Advisers, Inc., Frontier Capital Management Company, LLC, Goldman Sachs Asset Management, Granahan Investment Management, Granite Investment Partners, LLC, Great Lakes Advisors, LLC, GW&K Investment Management, LLC</p>
6	Private Credit Mandate Search	<p>RFP Release Date: December 10, 2018</p> <p>Submission Deadline: January 18, 2019</p> <p>Status: On July 23, 2019, Board awarded contracts to Alcentra Limited; Benefit Street Partners L.L.C.; Crescent Capital Group LP; and Monroe Capital LLC. Negotiations in process.</p> <p>List of Respondents: Alcentra Limited, Barings LLC, MB Global Partners, LLC, Backcast Partners Management LLC, BlackRock, Inc., CLSA Capital Partners (HK) Limited, Cross Ocean Adviser LLP, Clearwater Capital Partners (Fiera Capital Corporation), Guggenheim Partners, LLC, Goldman Sachs Asset Management, L.P., Pemberton Capital Advisors LLP, Kayne Anderson Capital Advisors, L.P., Maranon Capital, L.P., Bain Capital Credit, LP, Breakwater Management LP, Carlyle Global Credit Investment Management L.L.C., Crescent Capital Group LP, MV Credit Partners LLP, New Mountain Capital, LLC, Park Square Capital USA LLC, Tor Investment Management (Hong Kong) Limited, AlbaCore Capital LLP, Muzinich & Co., Inc., Kartesia Management S.A., Medalist Partners, LP, NXT Capital Investment Advisers, LLC, Owl Rock Capital Partners, PennantPark Investment Advisers, PIMCO Investments LLC, Deerpath Capital Management, LP, Brightwood Capital Advisors, Magnetar Capital LLC, MC Credit Partners LP, Oaktree Capital Management, L.P., THL Credit Advisors LLC, White Oak Global Advisors, LLC, Benefit Street Partners L.L.C., EntrustPermal / Blue Ocean GP LLC, Willow Tree Credit Partners LP, Monroe Capital LLC, Runway Growth Capital LLC, Stellus Capital Management, LLC</p>

LOS ANGELES CITY EMPLOYEES' RETIREMENT SYSTEM
CONTRACTS LIST FOR THE MARCH 10, 2020 BOARD MEETING

ACTIVE RFPs AND RFQs

NO.	DESCRIPTION	MARKETING CESSATION STATUS AND VENDOR RESPONSES
-----	-------------	---

***RESTRICTED PERIOD FOR REQUEST FOR PROPOSAL OR REQUEST FOR QUALIFICATIONS:**

Start Date - The restricted period commences on the day the Request for Proposal is released.

End Date - The restricted period ends on the day the contract is executed.



REPORT TO BOARD OF ADMINISTRATION

From: Lita Payne, Executive Officer *Lita Payne*

MEETING: MARCH 10, 2020

ITEM: V-C

SUBJECT: EDUCATION AND TRAVEL EXPENDITURE REPORT FOR THE QUARTER ENDING DECEMBER 31, 2019

ACTION: CLOSED: CONSENT: RECEIVE & FILE:

Recommendation

That the Board receive and file this report.

Executive Summary

A report of Board and staff travel expenditures is provided to the Board on a quarterly basis pursuant to the Board Education and Travel Policy. The total travel expenditure for the quarter ending December 31, 2019 was \$78,729.58 or 32.0% of the \$245,845.00 total budget for Fiscal Year 2019-20.

	FY 2019-20 Budget	Quarter Ending 12/31/19		Year-to-Date	
		Amount	Budget %	Amount	Budget %
Board	\$ 30,000.00	\$ 1,352.30	4.5%	\$ 12,676.46	42.3%
Staff	\$126,695.00	\$ 21,743.72	17.2%	\$ 42,608.53	33.6%
Investment Administration	\$ 89,150.00	\$ 16,632.95	18.7%	\$ 23,444.59	26.3%
Total	\$245,845.00	\$ 39,728.97	16.2%	\$ 78,729.58	32.0%

Discussion

The attached report details the travel expenses for educational conferences attended by Board Members; investment due diligence visits conducted by Investment Division staff; and educational conferences and training courses attended by Los Angeles City Employees' Retirement System (LACERS) staff during the Fiscal Year 2019-20. The reported costs include registration and airfare expenditures paid directly by LACERS, as well as the amount reimbursed to Board Members and staff.

This report was prepared by Mikyong Jang, Departmental Chief Accountant IV.

LP:TB:MJ:LB

Attachment: 1) LACERS Board and Staff Education, Training, Investment Administration Related Travel Quarterly Expenditure Report

**LOS ANGELES CITY EMPLOYEES' RETIREMENT SYSTEM
BOARD MEMBERS' EDUCATION AND RELATED TRAVEL REPORT
FOR THE PERIOD JULY 1, 2019 TO DECEMBER 31, 2019**

BOARD MEMBER	TRAVEL EXPENDITURES		ANNUAL MAX. AMT./TRUSTEE ¹	BALANCE TO ANNUAL MAX. LIMIT
	QE 12/31/19	YTD AS OF 12/31/19		
CYNTHIA RUIZ	\$ -	\$ 4,722.26	\$ 10,000.00	\$ 5,277.74
ANNIE CHAO	-	2,537.79	10,000.00	7,462.21
ELIZABETH LEE	-	4,064.11	10,000.00	5,935.89
SANDRA LEE	12.00	12.00	10,000.00	9,988.00
NILZA SERRANO	-	-	10,000.00	10,000.00
SUNG WON SOHN	-	-	10,000.00	10,000.00
MICHAEL WILKINSON	1,340.30	1,340.30	10,000.00	8,659.70
TOTAL BOARD MEMBERS' TRAVEL EXP. & ANNUAL LIMIT	\$ 1,352.30	\$ 12,676.46	\$ 70,000.00	N/A
TOTAL BOARD MEMBERS' TRAVEL EXPENSE BUDGET (%)²	4.5%	42.3%		

¹ Annual maximum travel expenditures limit per trustee is set at \$10,000.

² Calculated as a percentage of the \$30,000 FY20 budget allocation for Board travel.

**LOS ANGELES CITY EMPLOYEES' RETIREMENT SYSTEM
BOARD MEMBERS' EDUCATION AND RELATED TRAVEL EXPENDITURE REPORT
FOR THE PERIOD JULY 1, 2019 TO DECEMBER 31, 2019**

NAME	ORGANIZATION	CONFERENCE TITLE	LOCATION	START DATE	END DATE	REGISTRATION	AIRFARE	LODGING	OTHER TRAVEL EXP.	TOTAL EXPENSE
ELIZABETH LEE	STATE ASSOCIATION OF COUNTY RETIREMENT SYSTEMS (SACRS)	MODERN INVESTMENT THEORY & PRACTICE FOR RETIREMENT SYSTEMS	BERKELEY, CA	07/21/19	07/24/19	\$ 2,500.00	\$ 186.96	\$ 1,093.74	\$ 283.41	\$ 4,064.11
CYNTHIA RUIZ	PRINCIPLES FOR RESPONSIBLE INVESTMENT (PRI) ASSOCIATION	PRI IN PERSON 2019	PARIS, FRANCE	09/08/19	09/13/19	1,302.45	1,449.03	1,343.90	626.88	4,722.26
ANNIE CHAO	NATIONAL CONFERENCE ON PUBLIC EMPLOYEE RETIREMENT SYSTEMS (NCPERS)	2019 PUBLIC PENSION FUNDING FORUM	NEW YORK, NY	09/10/19	09/13/19	685.00	296.60	1,177.47	378.72	2,537.79
SANDRA LEE ¹	COUNCIL OF INSTITUTIONAL INVESTORS (CII)	PENSION FUND TRUSTEE TRAINING - FIDUCIARY FITNESS	BERKELEY, CA	10/03/19	10/04/19	-	12.00	-	-	12.00
MICHAEL WILKINSON ²	STATE ASSOCIATION OF COUNTY RETIREMENT SYSTEMS (SACRS)	SACRS FALL 2019 CONFERENCE	MONTEREY, CA	11/12/19	11/15/19	120.00	136.08	673.74	410.48	1,340.30
BOARD MEMBERS' EDUCATION AND RELATED TRAVEL EXPENDITURES FOR THE 1ST QUARTER ENDING 09/30/19:						\$ 4,487.45	\$ 1,932.59	\$ 3,615.11	\$ 1,289.01	\$ 11,324.16
BOARD MEMBERS' EDUCATION AND RELATED TRAVEL EXPENDITURES FOR THE 2ND QUARTER ENDING 12/31/19:						\$ 120.00	\$ 148.08	\$ 673.74	\$ 410.48	\$ 1,352.30
YTD TRAVEL EXPENDITURES / ANNUAL BUDGET FOR BOARD EDUCATION AND TRAVEL (AMOUNT & %):						\$12,676.46		\$30,000.00		42.3%
YTD BOARD MEMBERS' TRAVEL EXPENDITURES / ANNUAL BUDGET FOR ALL DEPARTMENT TRAVEL (AMOUNT & %):						\$12,676.46		\$245,845.00		5.2%

¹ Event and airfare were cancelled. Only \$12 booking fee was charged.

² Registration excluded \$10 Fun Run fee paid back to LACERS by the traveller.

**LOS ANGELES CITY EMPLOYEES' RETIREMENT SYSTEM
STAFF EDUCATION AND RELATED TRAVEL EXPENDITURE REPORT
FOR THE PERIOD JULY 1, 2019 TO DECEMBER 31, 2019**

NAME	ORGANIZATION	CONFERENCE TITLE	LOCATION	START DATE	END DATE	REGISTRATION	AIRFARE	LODGING	OTHER TRAVEL EXP.	TOTAL EXPENSE
MIGUEL BAHAMON ¹	INSTITUTIONAL LIMITED PARTNERS ASSOCIATION (ILPA)	THE ILPA INSTITUTE LEVEL II MODULE 1	CHICAGO, IL	07/14/19	07/16/19	\$ 1,499.00	\$ 487.60	\$ 467.26	\$ 235.85	\$ 2,689.71
BRIAN CHA ¹	INTERNATIONAL FOUNDATION OF EMPLOYEE BENEFIT PLANS (IFEBP)	FRAUD PREVENTION INSTITUTE FOR EMPLOYEE BENEFIT PLANS	CHICAGO, IL	07/14/19	07/16/19	-	462.60	97.78	244.34	804.72
JULIE GUAN	HYLAND	HYLAND COMMUNITY LIVE	CLEVELAND, OH	09/14/19	09/19/19	2,395.00	420.60	1,042.70	454.56	4,312.86
LAURIE TRAN ²	HYLAND	HYLAND COMMUNITY LIVE	CLEVELAND, OH	09/14/19	09/20/19	2,395.00	440.60	1,251.24	383.96	4,470.80
BRIAN CHA	LRS RETIREMENT SOLUTIONS	PENSIONGOLD TEAMING CONFERENCE 2019	SPRINGFIELD, IL	09/16/19	09/19/19	-	495.83	369.51	265.75	1,131.09
TODD BOUEY	LRS RETIREMENT SOLUTIONS	PENSIONGOLD TEAMING CONFERENCE 2019	SPRINGFIELD, IL	09/16/19	09/19/19	-	671.04	369.51	416.78	1,457.33
LIN LIN	INTERNATIONAL PUBLIC MANAGEMENT ASSOCIATION FOR HUMAN RESOURCES (IPMA-HR)	2019 IPMA-HR INTERNATIONAL TRAINING CONFERENCE & EXPO	MIAMI, FL	09/22/19	09/25/19	669.00	537.00	505.11	213.33	1,924.44
CHARLENA FREEMAN	INTERNATIONAL PUBLIC MANAGEMENT ASSOCIATION FOR HUMAN RESOURCES (IPMA-HR)	2019 IPMA-HR INTERNATIONAL TRAINING CONFERENCE & EXPO	MIAMI, FL	09/22/19	09/25/19	669.00	537.00	-	199.00	1,405.00
JOHN KOONTZ	DISASTER RECOVERY JOURNAL (DRJ)	DRJ FALL 2019	PHOENIX, AZ	09/29/19	10/02/19	1,345.50	-	790.23	533.13	2,668.86
TODD BOUEY	BOXWORKS	BOXWORKS 2019	SAN FRANCISCO, CA	10/02/19	10/04/19	100.00	197.64	608.58	235.76	1,141.98
ALELI CAPATI	BOXWORKS	BOXWORKS 2019	SAN FRANCISCO, CA	10/02/19	10/04/19	100.00	176.60	649.14	197.13	1,122.87
ISAIAS CANTU	BOXWORKS	BOXWORKS 2019	SAN FRANCISCO, CA	10/02/19	10/04/19	100.00	216.52	792.94	263.98	1,373.44
LITA PAYNE ³	CALIFORNIA ASSOCIATION OF PUBLIC RETIREMENT SYSTEMS (CALAPRS)	CALAPRS INTERMEDIATE COURSE IN RETIREMENT PLAN ADMINISTRATION	SAN JOSE, CA	10/16/19	10/17/19	-	12.00	280.67	101.79	394.46
TODD BOUEY	CALIFORNIA ASSOCIATION OF PUBLIC RETIREMENT SYSTEMS (CALAPRS)	CALAPRS INTERMEDIATE COURSE IN RETIREMENT PLAN ADMINISTRATION	SAN JOSE, CA	10/16/19	10/18/19	-	334.55	616.30	147.00	1,097.85

**LOS ANGELES CITY EMPLOYEES' RETIREMENT SYSTEM
STAFF EDUCATION AND RELATED TRAVEL EXPENDITURE REPORT
FOR THE PERIOD JULY 1, 2019 TO DECEMBER 31, 2019**

NAME	ORGANIZATION	CONFERENCE TITLE	LOCATION	START DATE	END DATE	REGISTRATION	AIRFARE	LODGING	OTHER TRAVEL EXP.	TOTAL EXPENSE
LADY SMITH	INTERNATIONAL FOUNDATION OF EMPLOYEE BENEFIT PLANS (IFEFP)	65TH ANNUAL EMPLOYEE BENEFITS CONFERENCE	SAN DIEGO, CA	10/19/19	10/23/19	1,595.00	-	1,077.40	437.88	3,110.28
BRUCE BERNAL	INTERNATIONAL FOUNDATION OF EMPLOYEE BENEFIT PLANS (IFEFP)	65TH ANNUAL EMPLOYEE BENEFITS CONFERENCE	SAN DIEGO, CA	10/20/19	10/23/19	1,595.00	-	808.05	370.88	2,773.93
DELIA HERNANDEZ ⁴	NATIONAL CONFERENCE ON PUBLIC EMPLOYEE RETIREMENT SYSTEMS (NCPERS)	2019 PUBLIC SAFETY CONFERENCE	NEW ORLEANS, LA	10/26/19	10/26/19	-	322.18	-	-	322.18
ANNA INGRAM ⁴	NATIONAL CONFERENCE ON PUBLIC EMPLOYEE RETIREMENT SYSTEMS (NCPERS)	2019 PUBLIC SAFETY CONFERENCE	NEW ORLEANS, LA	10/26/19	10/26/19	-	322.18	-	-	322.18
FERRALYN SNEED	NATIONAL CONFERENCE ON PUBLIC EMPLOYEE RETIREMENT SYSTEMS (NCPERS)	2019 PUBLIC SAFETY CONFERENCE	NEW ORLEANS, LA	10/27/19	10/30/19	715.00	322.18	839.16	268.50	2,144.84
ANN SEALES	NATIONAL CONFERENCE ON PUBLIC EMPLOYEE RETIREMENT SYSTEMS (NCPERS)	2019 PUBLIC SAFETY CONFERENCE	NEW ORLEANS, LA	10/27/19	10/30/19	715.00	322.18	839.16	269.00	2,145.34
MARIA REJUSO	ASSOCIATION OF PUBLIC PENSION FUND AUDITORS (APPFA)	PROFESSIONAL DEVELOPMENT CONFERENCE	LAKE TAHOE, CA	10/27/19	10/30/19	425.00	279.60	338.96	381.68	1,425.24
TIFFANY OBEMBE	LACERS	2020 OPEN ENROLLMENT MEETING	LAS VEGAS, NV	11/06/19	11/07/19	-	156.60	79.09	168.26	403.95
GABRIEL PEREZ	LACERS	2020 OPEN ENROLLMENT MEETING	LAS VEGAS, NV	11/06/19	11/07/19	-	207.96	79.09	144.91	431.96
HEATHER RAMIREZ	LACERS	2020 OPEN ENROLLMENT MEETING	LAS VEGAS, NV	11/06/19	11/07/19	-	-	79.09	375.74	454.83
JESUS NAVARRO	LACERS	2020 OPEN ENROLLMENT MEETING	LAS VEGAS, NV	11/06/19	11/07/19	-	187.56	79.09	151.34	417.99
KRISTAL BALDWIN	LACERS	2020 OPEN ENROLLMENT MEETING	LAS VEGAS, NV	11/06/19	11/07/19	-	303.96	79.09	145.50	528.55
BRUCE BERNAL	LACERS	2020 OPEN ENROLLMENT MEETING	LAS VEGAS, NV	11/06/19	11/07/19	-	-	79.09	367.73	446.82
VIKRAM JADHAV	MSE PARTNERS, LLC	EXPERIENCE AND LOYALTY FORUM	TAMPA, FL	11/13/19	11/16/19	-	274.00	483.64	348.78	1,106.42

**LOS ANGELES CITY EMPLOYEES' RETIREMENT SYSTEM
STAFF EDUCATION AND RELATED TRAVEL EXPENDITURE REPORT
FOR THE PERIOD JULY 1, 2019 TO DECEMBER 31, 2019**

NAME	ORGANIZATION	CONFERENCE TITLE	LOCATION	START DATE	END DATE	REGISTRATION	AIRFARE	LODGING	OTHER TRAVEL EXP.	TOTAL EXPENSE
NEIL GUGLIELMO ⁵	SAHAR GLOBAL SUMMITS	3RD ANNUAL PRIVATE EQUITY INVESTOR SUMMIT	NEW YORK, NY	12/02/19	12/04/19	-	578.61	-	-	578.61
TOTAL STAFF TRAVEL EXPENDITURES FOR THE 1ST QUARTER ENDING 09/30/19:						\$ 8,972.50	\$ 4,052.27	\$ 4,893.34	\$ 2,946.70	\$ 20,864.81
TOTAL STAFF TRAVEL EXPENDITURES FOR THE 2ND QUARTER ENDING 12/31/19:						\$ 5,345.00	\$ 4,214.32	\$ 7,808.54	\$ 4,375.86	\$ 21,743.72
YTD TRAVEL EXPENDITURES / ANNUAL BUDGET FOR STAFF TRAVEL (AMOUNT & %):						\$42,608.53	\$126,695.00		33.6%	
YTD STAFF TRAVEL EXPENDITURES / ANNUAL BUDGET FOR ALL DEPARTMENT TRAVEL (AMOUNT & %):						\$42,608.53	\$245,845.00		17.3%	

¹ Funded by the Travel Budget of Fiscal Year 2018-19.

² Includes \$12 service fees erroneously charged by the travel agency which was credited later.

³ Airfare credit of \$107.96 was applied for this travel.

⁴ Travels were cancelled. Southwest airline credits with expiration date of 08/10/20, were received for the airfare paid excluding the \$12 service fees.

⁵ Travel was cancelled. United Airlines credit with expiration date of 08/08/20, was received for the airfare paid excluding the \$12 service fee.

**LOS ANGELES CITY EMPLOYEES' RETIREMENT SYSTEM
INVESTMENT ADMINISTRATION AND RELATED TRAVEL EXPENDITURE REPORT
FOR THE PERIOD JULY 1, 2019 TO DECEMBER 31, 2019**

NAME	ORGANIZATION	CONFERENCE TITLE	LOCATION	START DATE	END DATE	REGISTRATION	AIRFARE	LODGING	OTHER TRAVEL EXP.	TOTAL EXPENSE
EDUARDO PARK	THE PENSION BRIDGE	THE PRIVATE EQUITY EXCLUSIVE	CHICAGO, IL	07/22/19	07/24/19	\$ -	\$ 438.61	\$ 716.16	\$ 229.12	\$ 1,383.89
RODNEY JUNE	THE ASSOCIATION OF ASIAN AMERICAN INVESTMENT MANAGERS (AAAAM)	AAAAM NATIONAL CONFERENCE 2019	NEW YORK, NY	09/03/19	09/05/19	-	461.60	299.90	227.00	988.50
WILKIN LY	NOSSAMAN LLP / INSTITUTIONAL LIMITED PARTNERS ASSOCIATION (ILPA)	NOSSAMAN'S 2019 PUBLIC PENSIONS AND INVESTMENTS FIDUCIARIES' FORUM / ILPA MEETING	BERKELEY, CA / OAKLAND, CA	09/04/19	09/06/19	395.00	206.60	359.34	219.78	1,180.72
BARBARA SANDOVAL	EAM INVESTORS, LLC	DUE DILIGENCE	CARDIFF-BY-THE-SEA, CA	09/11/19	09/11/19	-	-	-	78.50	78.50
BRYAN FUJITA	EAM INVESTORS, LLC	DUE DILIGENCE	CARDIFF-BY-THE-SEA, CA	09/11/19	09/11/19	-	-	-	60.67	60.67
ROBERT KING	EAM INVESTORS, LLC	DUE DILIGENCE	CARDIFF-BY-THE-SEA, CA	09/11/19	09/11/19	-	-	-	85.25	85.25
BARBARA SANDOVAL	WILLIAM BLAIR INVESTMENT MANAGEMENT / SEGALL BRYANT & HAMILL	DUE DILIGENCE	CHICAGO, IL	09/23/19	09/25/19	-	358.61	990.91	257.89	1,607.41
RODNEY JUNE	INSTITUTIONAL LIMITED PARTNERS ASSOCIATION (ILPA)	3RD ANNUAL CIO SYMPOSIUM	CAMBRIDGE, MA	09/24/19	09/25/19	-	315.30	-	195.77	511.07
EDUARDO PARK ¹	ASANA PARTNERS	2019 ASANA PARTNERS ANNUAL MEETING	DALLAS, TX	09/25/19	09/26/19	-	393.61	356.15	165.87	915.63
EDUARDO PARK	INVESTMENT COUNSELORS OF MARYLAND, LLC, CLEARBRIDGE INVESTMENTS, LLC, AND COPELAND CAPITAL MGT, LLC	DUE DILIGENCE	BALTIMORE, MD AND CONSHOHOCKEN, PA	10/01/19	10/03/19	-	479.30	212.53	434.80	1,126.63
EDUARDO PARK	GRANAHAH INVESTMENT MGT., WESTFIELD CAPITAL MGT, LISANTI CAPITAL GROWTH, LLC, AND QMA LLC	DUE DILIGENCE	WALTHAM, MA; BOSTON, MA; NEW YORK, NY; NEWARK, NJ	10/07/19	10/11/19	-	682.60	1,397.35	634.66	2,714.61
ROBERT KING	TORREYCOVE CAPITAL PARTNERS, LLC	DUE DILIGENCE	SAN DIEGO, CA	10/10/19	10/10/19	-	-	-	118.09	118.09
RODNEY JUNE	PACIFIC CENTER FOR ASSET MANAGEMENT (PCAM)	DUE DILIGENCE	LA JOLLA, CA	10/11/19	10/11/19	-	-	-	49.00	49.00
EDUARDO PARK	PENSION REAL ESTATE ASSOCIATION (PREA)	29TH ANNUAL INSTITUTIONAL INVESTOR CONFERENCE	WASHINGTON, DC	10/15/19	10/18/19	150.00	609.60	827.64	387.32	1,974.56
RODNEY JUNE	CALIFORNIA ASSOCIATION OF PUBLIC RETIREMENT SYSTEMS (CALAPRS)	CALAPRS INTERMEDIATE COURSE IN RETIREMENT PLAN ADMINISTRATION	SAN JOSE, CA	10/17/19	10/17/19	-	87.96	-	73.91	161.87

**LOS ANGELES CITY EMPLOYEES' RETIREMENT SYSTEM
INVESTMENT ADMINISTRATION AND RELATED TRAVEL EXPENDITURE REPORT
FOR THE PERIOD JULY 1, 2019 TO DECEMBER 31, 2019**

NAME	ORGANIZATION	CONFERENCE TITLE	LOCATION	START DATE	END DATE	REGISTRATION	AIRFARE	LODGING	OTHER TRAVEL EXP.	TOTAL EXPENSE
WILKIN LY	VISTA EQUITY PARTNERS	2019 VISTA ANNUAL GENERAL MEETING	NEW YORK, NEW YORK	10/23/19	10/24/19	-	540.59	-	158.60	699.19
BRYAN FUJITA	KKR CREDIT	DUE DILIGENCE	SAN FRANCISCO, CA	10/28/19	10/28/19	-	410.60	-	44.30	454.90
ROBERT KING	KKR CREDIT AND MARKETS GROUP	DUE DILIGENCE & 3RD ANNUAL PRIVATE EQUITY FALL FORUM	SAN FRANCISCO, CA	10/28/19	10/30/19	-	309.60	392.68	262.09	964.37
BRYAN FUJITA	MORGAN STANLEY	DUE DILIGENCE	NEW YORK, NY	11/04/19	11/05/19	-	476.60	308.94	195.50	981.04
ROBERT KING	LOOMIS SAYLES & CO; RHUMLINE; DDJ CAPITAL MGT., LLC	DUE DILIGENCE	BOSTON, MA	11/04/19	11/07/19	-	452.60	943.79	393.38	1,789.77
EDUARDO PARK	INVESCO CORE REAL ESTATE	2019 INVESCO CORE REAL ESTATE GLOBAL CLIENT CONFERENCE	LA JOLLA, CA	11/05/19	11/07/19	-	82.20	-	136.50	218.70
RODNEY JUNE	KPS CAPITAL PARTNERS, LP	DUE DILIGENCE	MIAMI, FL	11/05/19	11/08/19	-	411.00	-	195.18	606.18
ROBERT KING	GROSVENOR CAPITAL MANAGEMENT (GCM)	GCM GROSVENOR SMALL & EMERGING MANAGERS CONFERENCE	CHICAGO, IL	11/13/19	11/15/19	-	408.60	523.62	265.24	1,197.46
RODNEY JUNE	GROSVENOR CAPITAL MANAGEMENT (GCM)	GCM GROSVENOR SMALL & EMERGING MANAGERS CONFERENCE	CHICAGO, IL	11/14/19	11/15/19	-	350.60	362.77	176.50	889.87
ROBERT KING	AEGON ASSET MANAGEMENT	DUE DILIGENCE	CEDAR RAPIDS, IA	11/18/19	11/19/19	-	904.00	97.58	187.15	1,188.73
RODNEY JUNE	SAHAR GLOBAL SUMMIT	3RD ANNUAL PRIVATE EQUITY INVESTOR SUMMIT	NEW YORK, NY	12/02/19	12/04/19	-	541.60	690.92	265.46	1,497.98
INVESTMENT ADMINISTRATION TRAVEL EXPENDITURES FOR THE 1ST QUARTER ENDING 09/30/19:						\$ 395.00	\$ 2,174.33	\$ 2,722.46	\$ 1,519.85	\$ 6,811.64
INVESTMENT ADMINISTRATION TRAVEL EXPENDITURES FOR THE 2ND QUARTER ENDING 12/31/19:						\$ 150.00	\$ 6,747.45	\$ 5,757.82	\$ 3,977.68	\$ 16,632.95
YTD TRAVEL EXPENDITURES / ANNUAL BUDGET FOR INVESTMENT ADMINISTRATION TRAVEL EXPENDITURES (AMOUNT & %):						\$23,444.59	\$89,150.00	26.3%		
YTD INVESTMENT ADMIN. TRAVEL EXPENDITURES / ANNUAL BUDGET FOR ALL DEPARTMENT TRAVEL (AMOUNT & %):						\$23,444.59	\$245,845.00	9.5%		

¹ Airfare, lodging, and ground transportation costs for \$828.63 are reimbursed by Asana Partners on 01/06/20.

REPORT TO BOARD OF ADMINISTRATION

From: Lita Payne, Executive Officer *Lita Payne*

MEETING: MARCH 10, 2020

ITEM: VI – A

SUBJECT: 977 N. BROADWAY PROPERTY BUDGET AND POSSIBLE BOARD ACTION

ACTION: CLOSED: CONSENT: RECEIVE & FILE:

Recommendation

That the Board:

- 1) Authorize the General Manager to reallocate \$133,617 approved in the Fiscal Year 2019-20 budget for office expansion expenses at the Times building to expenses related to the move to 977 Broadway;
- 2) Authorize the General Manager to transfer the amount to various appropriation accounts within the *Administrative Expense Budget*, and to the *Building Operating Budget*, as necessary;
- 3) Approve the interim *Capital Expense Budget* of \$966,323;
- 4) Delegate authority to the General Manager to approve the *Building Operating Budget*, prepared by LACERS' Asset Manager, Invesco, not to exceed \$550,000 per quarter beginning with the effective date of LACERS' Asset Management agreement;
- 5) Instruct staff to report back to the Board quarterly, or as needed.

Executive Summary

In October 2019, the Board authorized and completed the purchase of an office building and underground parking structure located at 977 N. Broadway ("Broadway Building"), Los Angeles, California, at the final negotiated purchase price of \$33,750,000. The Broadway Building, built in 1984, is a five-story building totaling 64,585 square feet with a 131-space subterranean parking structure. The property will serve a dual purpose as the headquarters for LACERS offices, and as a separate account holding in our Investment Trust Fund.

This report discusses the activities since the purchase of the building and near term plans, as well as the expenditures corresponding to LACERS' roles as investor, owner, and future occupier. Board approval is sought for the interim budget for capital expenses, operating expenses, and administrative expenses to facilitate the interim relocation of Investment and Member Engagement staff to the 2nd floor of the Broadway Building (Move "Phase 1") and to prepare the property for LACERS' full occupancy (Move "Phase 2").

Discussion

Administrative Expense Budget – Fiscal Year 2019-20

Beginning March 16, 2020, twenty-five LACERS staff members from the Investment Division and Member Engagement section are targeted to occupy two suites on the second floor of the Broadway Building (Phase 1). LACERS was in the process of expanding our lease in the Times building to accommodate space needs, when the opportunity to acquire the Broadway Building was realized. Given the improvements made by the previous building owner, LACERS has been able to leverage existing build-outs on the second floor, with additional improvements to wiring and the procurement of rental furniture, to allow a temporary move to be executed expeditiously. In the next phase of the move (Phase 2) for the remainder of LACERS staff, the floors will be restacked to co-locate groups to foster collaboration of dependent groups and maximize efficiency.

Funding for tenant expenses such as furniture, technology equipment and services, and move vendors are available from LACERS Administrative Expense Budget. The Fiscal Year 2019-20 budget approved \$646,780 for the contemplated expansion into additional space on the 4th and 5th floors of the Times Building. The services and equipment needed to complete Phase 1 are being paid directly from the revenues* of the existing building account, to be reimbursed by the Department's Administrative Expense Budget.

Staff is requesting that the Board reallocate \$133,617 in current year funds to pay for administrative expenses through June 30, 2020. This includes \$40,000 for a new fleet vehicle to replace the oldest vehicle in our three-vehicle fleet, a 1997 Ford Crown Victoria. One fleet vehicle will be housed at the Broadway building, and two vehicles at the Times building. The new vehicle is needed to ensure minimal disruption to operations by replacing this repair intensive vehicle that has exceeded its useful life; additional users will benefit from modern vehicle safety features and improved fuel economy.

REALLOCATION REQUEST	Amounts
Reallocate FY20 Expansion Budget	(\$133,617)
Rent	\$106,137
Relocation expenses	\$27,480
Broadway Building New Expenses	\$133,617
Staffing – Sr. Management Analyst 4 months	\$24,000
Overtime – Systems & Admin	\$10,000
Fleet vehicle	\$40,000
Phase I Move	
Relocation Expense	\$26,000
Furniture	\$33,617

*Note: Monthly building revenue is \$80,000.

Asset Services Budget – Interim

LACERS' executed a final contract with Invesco to serve as LACERS' Asset Manager of the Broadway Building on February 27, 2020, retroactive to the date of approval October 31, 2019. Under the contract, Invesco will prepare a budget for all asset services and building expenses, to be submitted no later than May 1, 2020 for the Fiscal Year 2020-21. The *Asset Services Budget* ("Budget") will include costs for property management, leasing, vendor services, construction, and renovation at the property. LACERS' approval of the Budget will confer on Invesco the full authority to carry out the Budget and related matters, unless and until the actual costs incurred exceed 10% of the approved Budget.

As funds are needed to pay for Capital or Operating Expenses, Invesco will submit a draw request to LACERS to fund the account from the established budget within five (5) business days. Expenses will be transferred from the LACERS Investment Trust Fund to pay for expenses approved in the *Asset Management Budget*. LACERS staff will be monitoring the accounts on an on-going basis. Invesco will submit annual budgets to LACERS by May 1 of each year and will provide quarterly reports to LACERS on the Budget, construction status, and other property activities.

In the interim and covering the period of October 2019 through June 2020, Invesco has prepared a "stub" *Asset Services Budget* for LACERS' immediate approval. Staff has internally segmented the expenditures into three expense categories of Capital, Operating, and Administrative (addressed in the previous section), corresponding to LACERS' role as investor, owner, and occupier, respectively. The Board's approval is sought for the interim Capital and Operating Expenses, and the Board's input is sought on future capital expenditure projects.

Capital Expense Budget

The Capital Expense Budget consists of building infrastructure repairs and construction projects to maintain and develop the value of the property. As part of its due diligence efforts prior to final property acquisition, Invesco assessed sixty-one property components spanning from the site, interior, exterior, roofing, mechanical systems, plumbing, to fire-life safety and ADA compliance. Invesco developed a preliminary Capital Plan and Budget for a ten year period at the total estimated cost of \$2.77 million. The majority of capital expenses appear in Year 1 (2019) and Year 2 (2020) at \$2.298 million. These figures are subject to change as construction services are engaged and detailed reviews and plans are underway.

In the time since taking ownership, LACERS has been in discussion with Invesco, and property manager (and former owner), PacShore, to address improvements identified during the due diligence process. Among other improvements, the most significant are seismic strengthening to increase the building's resiliency to withstand earthquake magnitudes greater than 6.0, improvements to the façade, and replacement of the roof. Tackling these issues now, while the building is largely vacant, will eliminate potential disruption to LACERS' operations. Reflected in the interim capital expense budget below are Capital-related Expenses for work needed immediately, as well as exploratory work on the seismic, façade, and roof projects. Advisors with expertise in these areas will assist in developing the scope of work and prepare a request for bid to complete the work.

CAPITAL EXPENSE BUDGET – October 2019 – June 2020

Estimated Expense

Exterior repair – seal gaskets	\$160,000
Exterior upgrade – design, façade investigation, panel investigation	\$95,000
Roof – consultant	\$15,000
Safety/security upgrades – EMS systems, garage ventilation, card reader/security system	\$110,000
Water Pumps – investigation	\$10,000
Electrical misc.	\$50,000
Interior repairs - flooring	\$50,000
Project Construction Management (PacShore)	\$61,000
Design Consulting Fee (HOK)	\$14,370
IT Consulting & Services (Presidio)	\$74,000
Network Equipment & Services	\$138,706
Cabling Materials & Services	\$86,523
Carrier Circuits – 1 year	\$15,240
Contingency 10%	\$86,484
TOTAL	\$966,323

Building Operating Budget

As a property owner, LACERS has an ongoing legal obligation to maintain a habitable and safe environment for all occupants of the Broadway Building, including LACERS staff. Invesco has retained PacShore, as the property management company to continue to manage daily operations. Accordingly, Invesco has prepared for LACERS' approval a *Building Operating Budget* which includes all expenses relating to daily operation of the building including service contracts (property manager, security, janitorial, building engineers, parking, maintenance, and repairs), taxes, and insurance. The total Operating Expenses for the period of October 2019 through June 2020 are estimated to be \$1,134,574.

BUILDING OPERATING BUDGET – October 2019 – June 2020	Estimated Expense
Cleaning	\$55,810
Elevator-HVAC-Electrical-Plumbing-Fire & Life Safety	\$35,954
General Building repair & maintenance	\$120,507
Utilities	\$71,697
Landscape & Garage	\$37,570
Security	\$110,746
Property Management Fees	\$141,214
Taxes, insurance, fees	\$395,136
Asset Management Fees	\$120,000
Audit Expenses	\$45,940
TOTAL	\$1,134,574

Operating expenses are obligatory expenses with known market pricing, therefore staff recommends the Board delegate authority to the General Manager to approve all operating expenses. Expenses through June 2020 reflect a slight increase with the addition of 25 LACERS staff members moving in on March 16, 2020.

Next Steps

LACERS will continue to work with Invesco on the priorities for the Broadway Building and will return to the Board with a comprehensive plan for managing the asset and the Proposed Asset Management Budget for Fiscal Year 2020-21.

May 1, 2020	Invesco submits Asset Management Budget for Fiscal Year 2020-21 to LACERS
May 26, 2020	Asset Management Budget, inclusive of the capital expense budget, the operating budget, and the administrative expenses for Fiscal Year 2020-21 is presented to the Board for approval

Kristina Lewison, Director of Asset Management from Invesco Real Estate will be present at the Board meeting to provide additional information on the Asset Management Plan.

Strategic Plan Impact Statement

Ownership in 977 N. Broadway advances the Board Governance Goal and Organization Goal by being a cost effective investment in the long-term as compared to leasing, and provides LACERS with complete control over its administrative facilities adding to the organization's efficiency, effectiveness, and resiliency.

Prepared By: Dale Wong-Nguyen, Chief Benefits Analyst

NMG/TB/DWN

- Attachments:
1. Headquarters Move Business Plan Initiative
 2. 977 Broadway – Second Floor Plan
 3. Proposed Board Resolution

INITIATIVE: Headquarters Move – Phase 1
DIVISION(S)/SECTIONS: ASO/Systems
STRATEGIC GOAL(S): Tracking Move-Related Progress

STATUS: On Track
REPORT MONTH: March 2020
LEAD(S): Isaias Cantú/Thomas Ma

INITIATIVE SUMMARY

The Headquarters (HQ) Move Initiative (HMI) tracks the transition of LACERS from its current headquarters to its new location and will focus on the following key priorities:

- Develop Progress Tracking Mechanism Roadmap (PTMR) involving Task Prioritization, Phase & Task Deadline identification
- PTMR as reference for Staff, Consultants, and Vendors
- Facilitate & clarify context related to the Board for HQ Move Quarterly Board Reports
- Phase One Move completion by 3rd Quarter of FY20

BUDGET – NOVEMBER 2019 THROUGH DECEMBER 2020

Administrative Expense (Reallocation)	\$133,617
Capital Expense	\$966,323
Operating Expense	\$1,134,574

KEY DEPENDENCIES/ASSUMPTIONS

- Work with vendors begins 2nd quarter of FY20
- 6 month completion time
- Key milestones & deliverables progress subject to change
- Staffing resources & funding availability

MILESTONES / DELIVERABLES

Q3/FY20

- ✓ Complete Furniture procurement and set-up – Mar
- ✓ Approval of 2nd floor design plans
- ✓ Connectivity of network for necessary services
- ✓ Data migration to Box.com
- ✓ Deployment of mobile equipment
- ✓ Invesco & LACERS completion of asset management contract – Feb
- ✓ Executive Approval of Backfill Plan – Mar

Other relocation preparations & implementations including Emergency Preparedness Plan (EPP), safety & security plans

- ✓ Establishment of Parking Policy
- ✓ Space & technology plan preparedness, specifications, procurement, installation, and policies
- ✓ Move coordination and execution
- ✓ Investments & Member Engagement (ME) Divisions complete relocation – Mar 16
- ✓ Confirm furniture configurations for divisions that will participate in Backfill Plan
- Board Approval of the stub budget for expenditures through June 30, 2020 – Mar 17
- Reconfigure Investment & ME office space to new occupant configurations
- Complete space backfill of Investments & ME – Mar

Q4/FY20

- Invesco & LACERS FY20, 3rd Quarter Report
- Board approval of Asset Management Plan and FY21 Budget – May 26
- Begin Phase Two Planning and timeline
- Development and Approval of Telecommuting Policy

ISSUES / CHALLENGES

- Uniqueness of managing one’s own building
- New team of staff and consultants/vendors needing to mobilize quickly

KEY INDICATORS

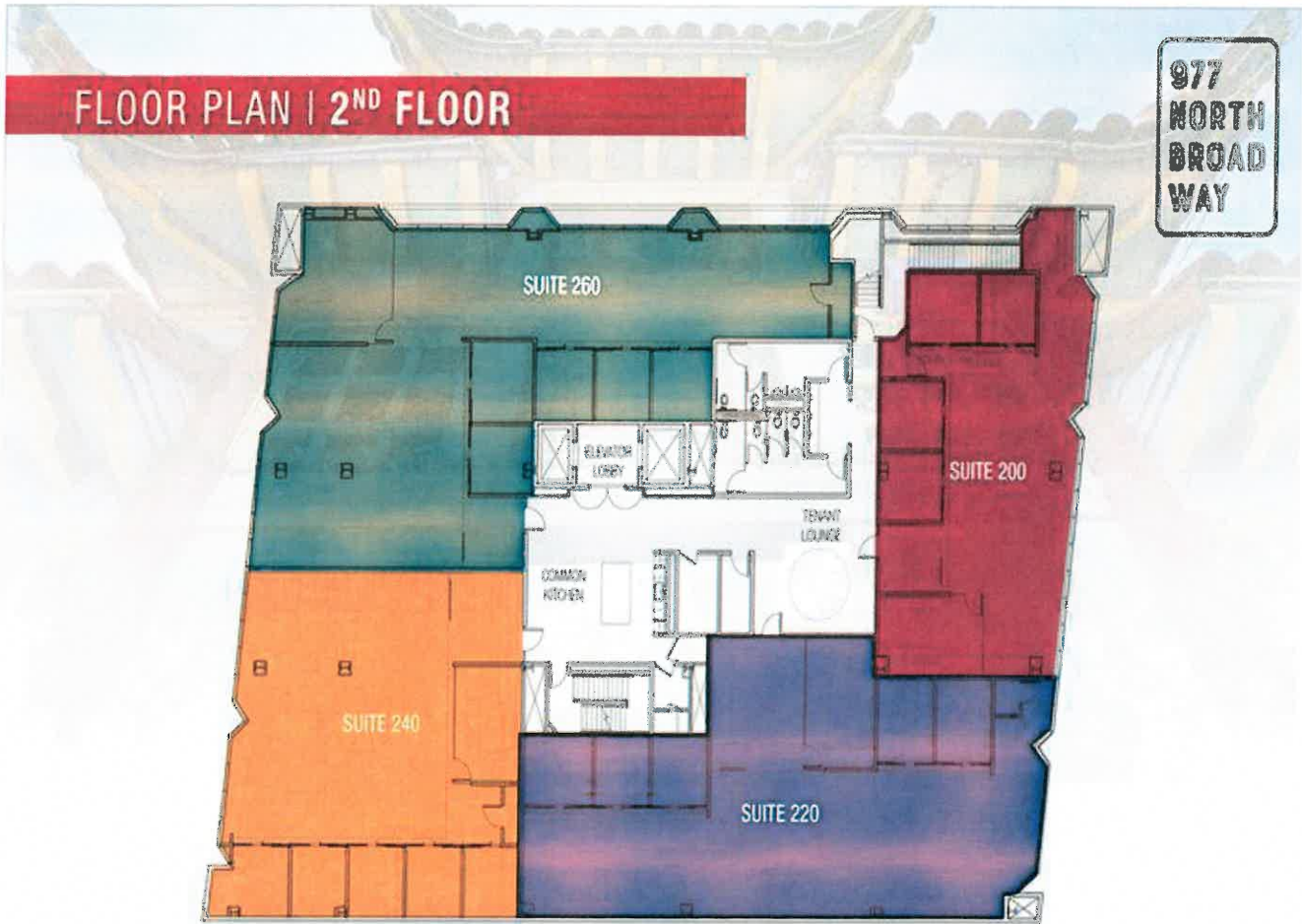
- Complete by March 31, 2020, Phase 1 of the HQ Move to transition Investment & Member Engagement Divisions to the building

EXECUTIVE ACTION ITEMS

- Secure Board approval for FY2019-20 Building Expenditures
- Secure delegated authority for the GM to administer Operational Budget

BUILDING PICTURES





			
SUITE 200 2,504 SF	SUITE 220 3,674 SF	SUITE 240 3,138 SF	SUITE 260 4,345 SF



APPROVAL OF THE ASSET MANAGEMENT BUDGET FOR THE PERIOD OF
NOVEMBER 2019 THROUGH JUNE 2020
FOR 977 NORTH BROADWAY
AND
DELEGATION OF AUTHORITY TO THE GENERAL MANAGER TO
APPROVE/TRANSFER BUDGETED EXPENDITURES

PROPOSED RESOLUTION

Whereas, in October 2019, the LACERS Board of Administration authorized and completed the purchase of an office building and underground parking structure located at 977 N. Broadway (“Broadway Building”), Los Angeles, California, at the final negotiated purchase price of \$33,750,000;

Whereas, the Broadway Building, a five-story building built in 1984, totaling 64,585 square feet with a 131-space subterranean parking structure, will serve a dual purpose as the headquarters for LACERS offices, and as a separate account holding in our Investment Trust Fund;

Whereas, as a property owner, LACERS has an ongoing legal obligation to maintain a habitable and safe environment for all occupants of the Broadway Building, including LACERS staff;

Whereas, property expenditures for capital expenses, operational expenses, and administrative expenses have been prepared by LACERS’ Asset Manager, Invesco Advisers, Inc. in collaboration with LACERS staff, for the period of November 2019 through June 2020; and the such expenditures are reasonable and consistent with LACERS’ objectives for the management of the property;

NOW, THEREFORE, BE IT RESOLVED, that the Board:

1. Authorize the General Manager to reallocate \$133,617 approved in the Fiscal Year 2019-20 *Administrative Expense Budget* for office expansion expenses at the Times building to expenses related to the move to 977 Broadway;
2. Authorize the General Manager to transfer \$133,617 to various appropriation accounts within the *Administrative Expense Budget*, and to the *Building Operating Budget* in the LACERS Trust Fund or official property account, as necessary;
3. Approve the interim *Capital Expense Budget* of \$966,323;
4. Delegate authority to the General Manager to approve the *Building Operating Budget*, prepared by LACERS’ Asset Manager, Invesco, not to exceed \$550,000 per quarter beginning with the effective date of LACERS’ Asset Management agreement.



LACERS
LOS ANGELES CITY EMPLOYEES'
RETIREMENT SYSTEM

Cryptocurrency Overview

Presented By: LACERS Investment Division

March 10, 2020

Agenda

- **Blockchain Basics and Key Terms**
 - A brief history of Bitcoin
 - Encryption and Public Key Encryption
 - Distributed Ledger
 - Wallets and Exchanges
 - Blockchain
- **What is Libra?**
 - Libra and Facebook
 - Libra Association Funding
 - Potential Regulatory Issues: Anti-Money Laundering, Monetary Policy, and Financial Stability
 - Libra Current Status
- **What does this mean for LACERS' investments?**

A Brief History of Bitcoin

- “*Bitcoin: A Peer-to-Peer Electronic Cash System*” paper by [Satoshi Nakamoto](#) was released on October 31, 2008, and the first block was mined on January 3, 2009.
- The first known transaction was the purchase of two pizzas valued at \$30 USD for 10,000 Bitcoin. Today, those 10,000 Bitcoins are worth more than \$80 million USD.
 - The current circulating supply is about 18 million Bitcoin, and the supply will continue to slowly expand until it reaches the maximum limit of 21 million Bitcoin.
 - Bitcoin is the largest cryptocurrency by market capitalization (price x supply), and the total value of all coins is about **\$150 billion USD**. More than **\$15 billion USD** of Bitcoin change hands every day.
 - Bitcoin futures began trading on the Chicago Board Options Exchange and the Chicago Mercantile Exchange during December 2017.
 - Bitcoin prices have not yet stabilized and are highly volatile compared to most other assets.



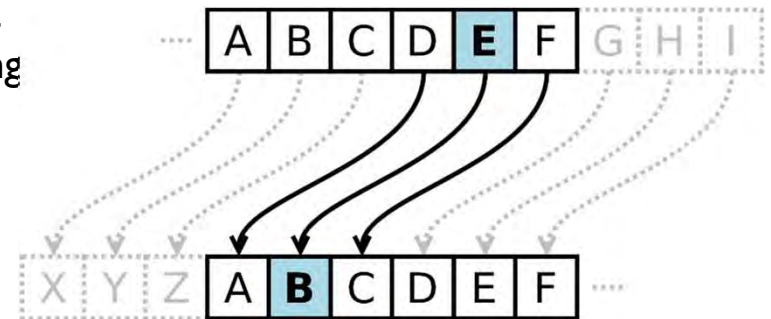
Key Terms: Encryption

Encryption allows information to be hidden so that it cannot be read without special knowledge (such as a password) using a secret code or a cypher.

Encryption has been used for thousands of years, but has become much more important and commonly used because of computers and the internet.

It is possible to decrypt a message without the key, but with modern encryption this is difficult and very time consuming.

- **Symmetric key encryption** uses the same key is used to both encrypt and decrypt information. In other words, anyone that possesses the key can read the information.
- **Public key encryption** uses two keys, a “**public**” key that can only be used to encrypt information but cannot be used to decrypt the message, and a “**private**” key that can decrypt that information.

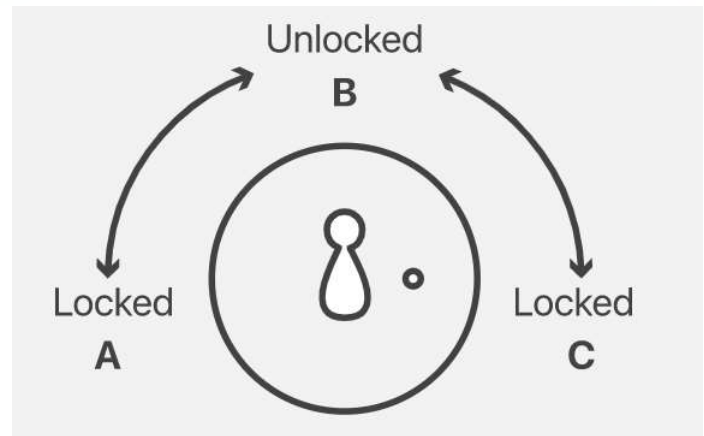


Key Terms: Public Key Encryption

Imagine a trunk with a lock that two people use to ship documents back and forth.

The lock on this trunk has a special lock (shown to the right) with **two different keys**:

- Key #1 can only turn to the **left**
- Key #2 can only turn to the **right**.

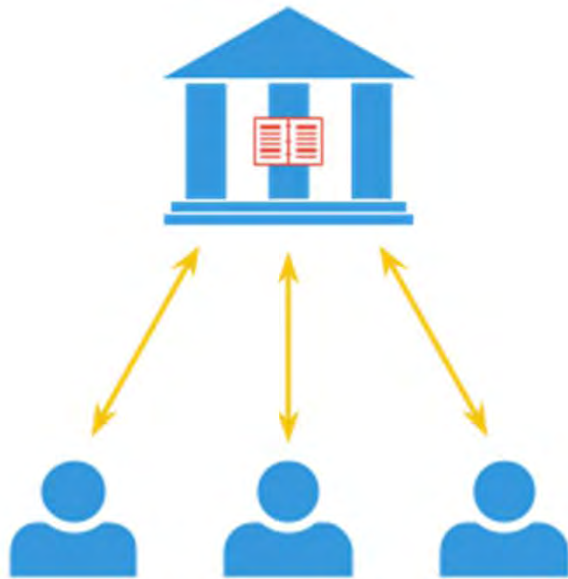


This means that if the trunk is locked in Position A, only Key #2 can unlock it by turning right to Position B (unlocked).

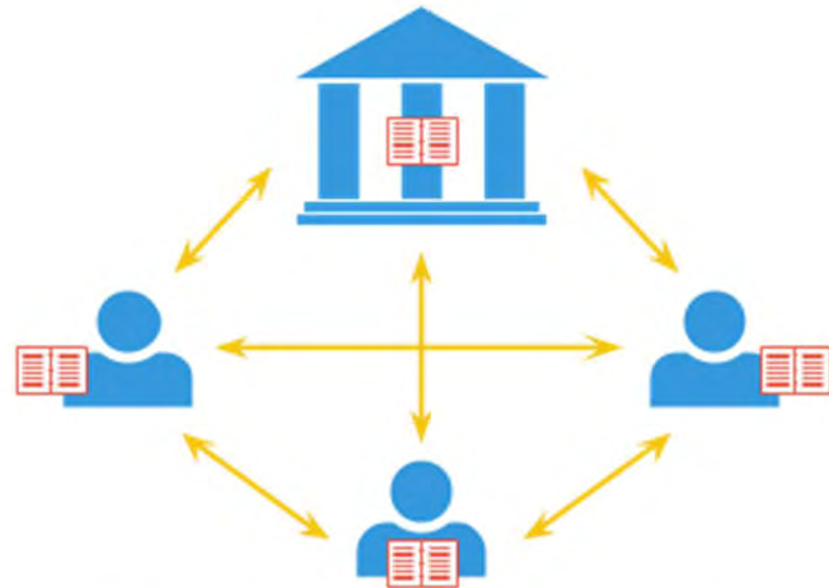
If the trunk is locked in Position C, only Key #1 can unlock it by turning left to Position B (unlocked).

In other words, either key can lock the trunk – but once it is locked, only the other key can unlock it.

Key Term: Distributed Ledger



Centralised: every party is dependent on one central party who hold the **ledger** (e.g. a technology company contracted by the Home Office). The central party has power over the data and can could tamper with it without other parties knowing.

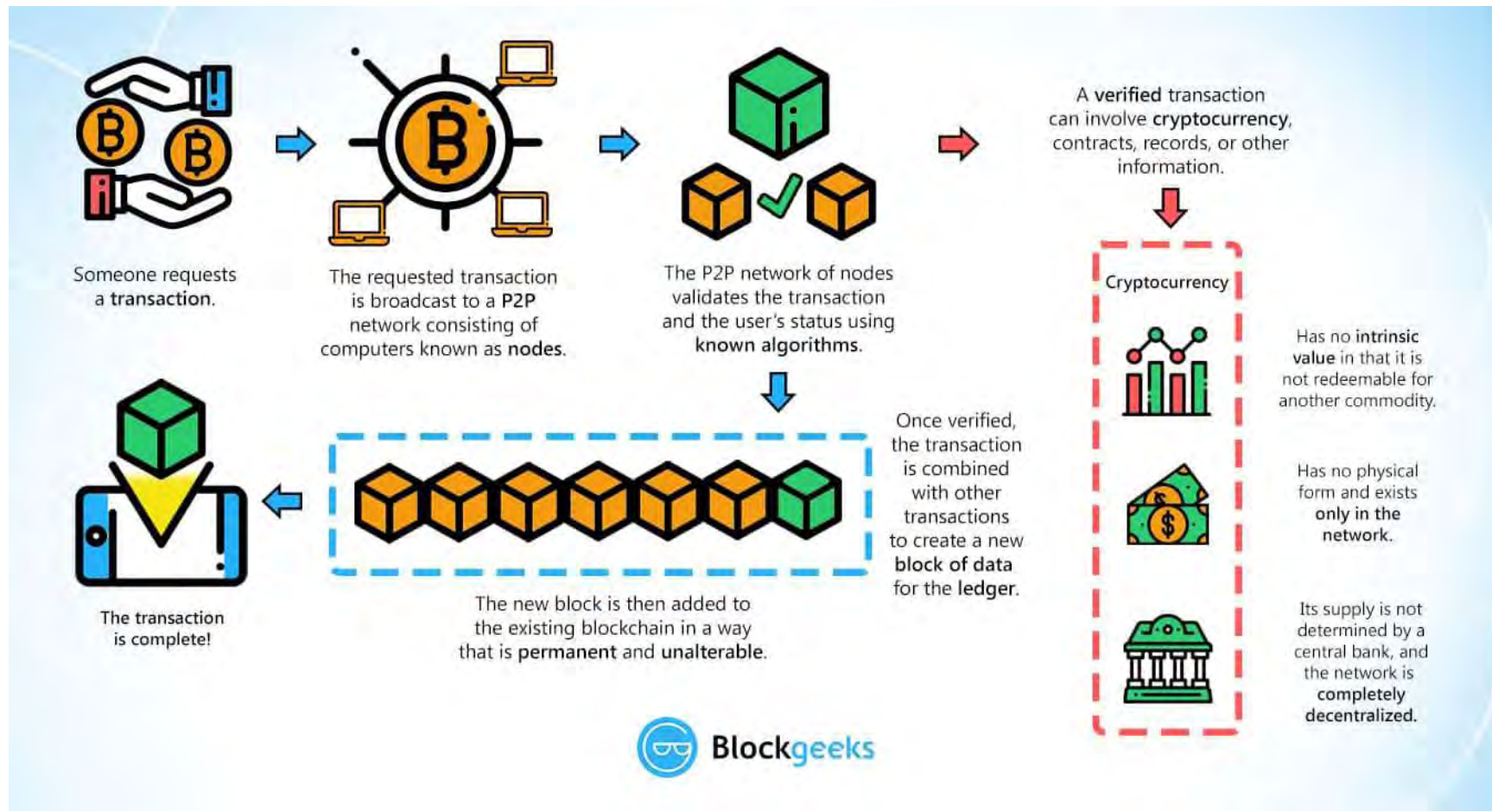


Decentralised: every party holds the **ledger**, reducing the power of any one party over the data and providing accountability over who has altered the data and when.

Key Terms: Wallets and Exchanges

- **Wallets** are software programs that hold the private keys that enable the transfer of cryptocurrency between owners.
 - Like any software, technical skill is required to operate a wallet safely and securely.
 - Managed wallets are being offered as a product for cryptocurrency investors (example: Fidelity Digital Management), enabling less technical investors to also securely hold these assets with less risk.
- **Exchanges** are companies that enable the buying, selling, and trading of cryptocurrencies (example: Coinbase).
 - While exchanges are not required to buy or sell cryptocurrencies, exchanges create a marketplace that improves liquidity and price transparency for the assets.

Key Term: Blockchain



What is Libra?

- Libra is a digital currency announced on June 18, 2019.
- Libra's purpose is to allow transfer of money around the world cheaper and faster, especially for the 1.7 billion unbanked adults around the world.
- Libra is a pegged-currency, which reflects the value of the underlying assets.
- Libra is controlled through a central organization comprised of industry members.
- The Libra Association is tasked with governance of the Libra ecosystem, and is comprised of industry, venture, and nonprofit entities. Each member pledged to commit at least \$10 million to the project and the desired reserve at launch is one billion dollars.

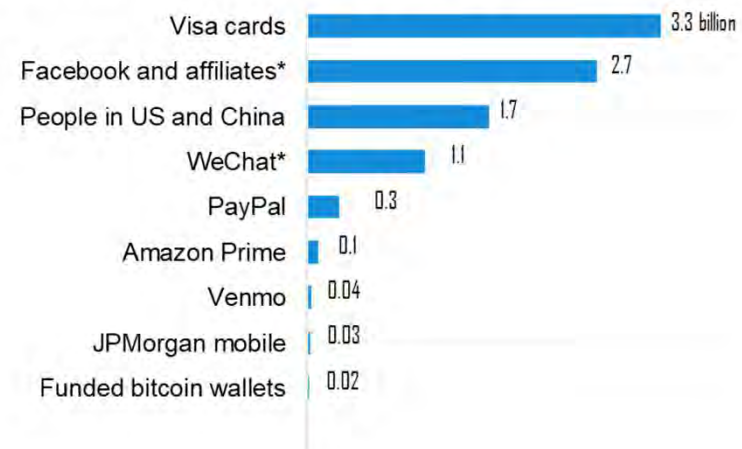


Libra and Facebook



- Although sponsored by the Libra Association, many critics view Facebook as the driving force behind Libra.
- Facebook has been subject to significant controversy, with CEO Mark Zuckerberg testifying before Congress regarding privacy concerns and alleged election interference.
- Leveraging Facebook's existing user base, Libra has the potential to become a sizable global payment system competitive with other world currencies.
- Facebook will benefit by providing simple, secure wallets (Calibra) that can be used to drive targeted advertising.

Population, credit cards, and users



Libra Association Funding

Libra would operate as a “**stablecoin**”, backed by a reserve of stable, government-issued currencies and securities.

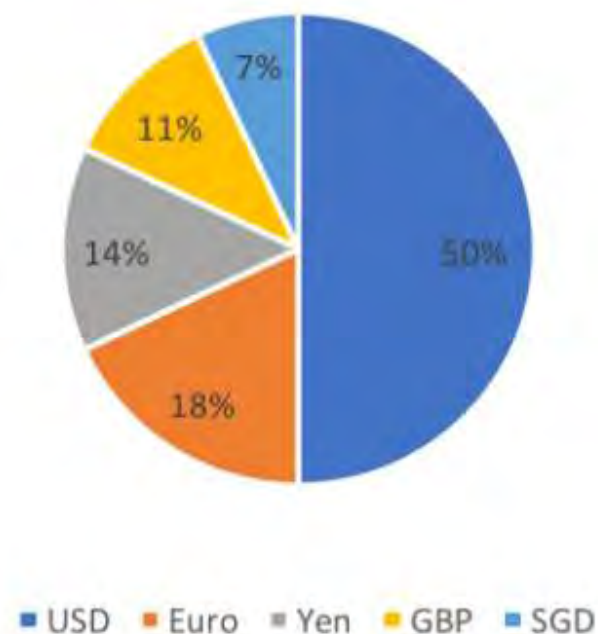
Operating expenses of the Libra network are planned to be funded by earnings from low risk investments such as government bonds.

The initial reserve fund size is planned to be at least one billion dollars.

Negative interest rates for government bonds are prevalent in many major developed economies, including Japan (14% of planned reserve) and much of Europe (18% of planned reserve)

It is unclear whether this proposal is sustainable in a very low rate or negative rate environment.

Allocation By Currency



Potential Issues: Anti-Money Laundering

U.S. financial institutions are required by law to take measures against money laundering and prevent access to the payment system by prohibited individuals, companies, or countries. Meeting these requirements is very difficult, typically requires a staff of experienced professionals and a significant investment in technology.

Some of the major requirements include:

- **Know Your Customer (KYC)/Customer Identification Program (CIP):** Verify identity of customers prior to account opening.
- **Customer Due Diligence (CDD)/Enhanced Due Diligence (EDD):** Understand the nature and purpose of customer relationships, with a focus on identifying higher risk accounts which may be used for money laundering or terrorist financing.
- **Office of Foreign Assets Control ("OFAC")** of the US Department of the Treasury administers and enforces economic and trade sanctions based on US foreign policy and national security goals.
 - *Potential Problem:* Accountability for complying with U.S. law is unclear, and this may embolden criminal organizations. Furthermore, Libra payments may potentially undermine the effectiveness of sanctions programs.

Potential Issues: Monetary Policy and Financial Stability

The Federal Reserve's ability to meet its dual mandates of price stability and maximum employment is primarily implemented through **open market operations**, which is dependent on control of the money supply.

- *Potential Problem:* The supply of Libra will not be directly controlled by a central bank, and if it or a similar cryptocurrency dominates the market, the effectiveness of central banks to achieve policy goals will potentially decline.

The Federal Reserve currently has the ability to respond to a financial crisis by creating dollars and lending them through the **Discount Window**.

- *Potential Problem:* Central banks will not have the ability to directly create and lend Libra during a crisis, and will therefore not be as directly able to limit the impact of a financial crisis.

FDIC insurance has substantially reduced the frequency and severity of bank runs which were a significant problem historically. Insured bank deposits are therefore effectively risk free, which may not be true of other similar products without the full faith and credit of the U.S. government.

- *Potential Problem:* While Libra will be backed by low risk investments, deposits are not insured by the FDIC. This leaves Libra open to a potential run during a crisis, similar to money market funds that “broke the buck” during the Great Financial Crisis.

Libra Current Status

The original planned launch date at year-end 2020 will likely be delayed due to continued government scrutiny. Of the 28 original founding members of the Libra Association, **seven members have dropped out** including: Visa, Mastercard, Stripe, eBay, Paypal, and Booking Holdings.

"Visa has decided not to join the Libra Association at this time," a spokesperson told Business Insider. "We will continue to evaluate and our ultimate decision will be determined by a number of factors, including the Association's ability to fully satisfy all requisite regulatory expectations. Visa's continued interest in Libra stems from our belief that well-regulated blockchain-based networks could extend the value of secure digital payments to a greater number of people and places, particularly in emerging and developing markets."

Meanwhile, central banks around the world are developing their own digital currencies:

- Chinese officials have stated that Libra may pose a threat to sovereignty, and as a result China is launching its Digital Currency Electronic Payment (DECP) system soon.

What does this mean for LACERS' investments?

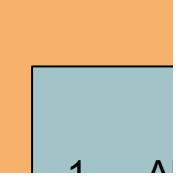
- Cryptocurrency may be disruptive to *some aspects* of the financial system, but this is not necessarily a negative for investment returns.
- Global regulators and central banks are taking this seriously, and likely will find ways to successfully integrate cryptocurrencies into policy and operations.
- **No immediate action by LACERS is necessary**, although staff will continue to closely monitor the emerging technology and its potential impact on the portfolio.
 - Historically, well diversified portfolios have benefited from general improvements in technology. The adoption of blockchain technology into the infrastructure of many industries will likely result in improved efficiency and lower costs.
- While this technology may be a significant threat to some financial services companies, it is also an opportunity for technology companies.











R

■

■

Tr

Ci



R11

In

Ne

Im:







LACERS

LOS ANGELES CITY EMPLOYEES'

RETIREMENT SYSTEM

Co-investments Program Staff Recommendation

LACERS Investments

Implementing Co-Investments at LACERS

In Board education sessions held July 9, 2019 and January 14, 2020, TorreyCove discussed the potential risks, rewards, and approaches to a co-investment program.

Staff conducted extensive research on co-investment, including:

- Reviewing academic research and industry studies
- Discussions with peer public pensions that have implemented co-investment programs
- Meetings with potential managers

The goals of today's presentation is to:

- Review the pros and cons for each of the five potential approaches to co-investing that TorreyCove presented in January
- Recommend an initial approach that can be implemented in the near term
- Discuss how we believe the program should evolve over the next few years

Approach Overview

- There is **no consensus on the best approach**. Through research and conversations with multiple peer public pensions, staff found examples of each approach being implemented.
 - Peer choice of approach was influenced by risk appetite, staff size and skill set, and the size and history of their private equity program.
- Additionally, we found cases of peers **implementing programs in stages** or **transitioning from one approach to another** as their experience and comfort level grew over time.
 - For example, some peers started with a comingled vehicle (investing alongside other LPs in a co-investment fund), moved to a separately managed account, and eventually developed and built process and controls required to bring the program completely in-house.
- It is important to note that while fee reduction is a key goal, each co-investing approach has its own **benefits and risks** that should be carefully considered.

Ease of Implementation

Approach	1) Commingled Co- investment Fund	2) Separately Managed Account	3) Consultant Approach: Full Underwriting	4) Consultant Approach: Abbreviated Underwriting	5) In-House Approach
Annual Fee	1%	0.85%	0%	0%	0%
Carried Interest	10%	10%	10%	5%	0%

Easy Difficult

Approach #1: Comingled Co-Investment Funds

Pros:

- **Access:** LACERS could **access co-investments from GPs with whom we have not previously invested**. Thus, the co-investments do not require an investment in the GP's primary funds.
- **Deal Flow:** Many managers of comingled funds have an established track record of co-investing. Such managers are top of mind for GPs seeking a partner so these managers see more opportunities. Managers of some of the larger report looking at **600 to 800 possible investments annually**.
- **Dedicated Team:** Co-investment specific teams, which combine industry and sector expertise with a fund manager's history of underwriting GPs, can be very selective in choosing co-investments. Some managers report approving just **one of every twenty deals (5%)** brought to them.
- **Timing:** Managers of comingled funds bring new funds to market every year and typically offer "more advanced" vehicles to be discussed later in this presentation. Thus, investing with such managers could serve as an **intermediate step to other approaches** and allow us to identify the best manager to partner with.
- **Diversification:** Comingled funds typically give investors exposure to a variety of companies. This **increases the potential for diversification**, which is associated with lower risk.

Cons:

- **Pricing:** Comingled funds typically have a 1% management fee and 10% carried interest over an 8% preferred return. While these fees are less than typical private equity fees, they are **more expensive than other co-invest options**.
- **Coverage:** LACERS would be limited to co-investments within the fund and therefore be **unable to leverage existing GP relationships** for co-investment opportunities.

Approach #2: Separately Managed Account

Pros:

- **Access:** Similar to comingled funds, a Separately Managed Account (SMA) gives access to GPs with whom LACERS has not previously invested, thus investment in the GP's primary fund is not required.
- **Deal Flow:** SMAs offer the highest overall deal flow because they would potentially combine the 600 to 800 deals generated by the manager with deals from GPs already in the LACERS portfolio. As noted previously, typically only one of twenty (5%) deals make it through a manager's underwriting process so **large deal flow is key** to a successful co-investment program.
- **Dedicated Team:** LACERS would get the expertise of the manager's dedicated team while also having the option for a **more customized program** that allows for **closer monitoring** and **greater transfer of knowledge** to LACERS investment staff.

Cons:

- **Pricing:** While management fees are often less expensive than comingled accounts, **pricing depends on size of commitment, deal sourcing, customization level, and degree of discretion.**
- **Size:** Separately Managed Accounts require **significantly larger capital commitments.** (For example, \$50 million a year for four years.)

Approach #3: Consultant Approach: Full Underwriting

Pros:

- **Price:** Less expensive than the comingled fund or SMA options, with **no management fee**.
- **Dedicated Team:** LACERS would have **access to a dedicated team** to complete due diligence requirements within the typical abbreviated time frame of two to six weeks.
- **Portfolio Construction:** Ability to **customize the portfolio** to address specific gaps or underexposure, such as industry, sector, geography, company size and vintage.

Cons:

- **Access:** Deal flow is limited to opportunities sourced from LACERS existing GP relationships. While it is unclear how many deals this would produce, **deal flow would be significantly less** than the 600 to 800 opportunities reviewed annually by some of the larger comingled and SMA managers.
- **Diversification:** With less robust deal flow, this would result in a portfolio of fewer companies, thereby likely having **higher concentration risk** than the SMA or comingled approaches.
- **Timing:** Compared to the SMA or comingled approaches, considerably **more time would likely be needed** to build a co-investment portfolio of meaningful size due to smaller deal flow.

Approach #4: Consultant Approach: Abbreviated Diligence

Pros:

- **Price:** Much **less expensive** than comingled or SMA, with **no management fee and smaller 5% carry**.
- **Dedicated Team:** LACERS would have access to a team whose primary task is to ensure that any potential deals meet **pre-established investment parameters**. With the deals sourced solely from GPs with whom LACERS has already invested, much of the required due diligence process has already been completed. Therefore deal approval rates would likely be much higher than the 5% average.
- **High Conviction GP Focus:** Deals sourced only from LACERS' highest conviction GPs, which would include those managers who are **well-known to LACERS staff and consultant** and having the **best historical performance**.

Cons:

- **Access:** This approach is the **most restrictive** because deal flow comes solely from LACERS' highest conviction GPs, which are a small subset of all GPs currently in the portfolio. Furthermore, it is possible that not all of them will offer appropriate co-investments.
- **Diversification:** Fewer deals will result in a **more concentrated portfolio**. Risk also increases due to the large commitments LACERS has already made to the primary fund of these GPs.
- **Underwriting:** Limited co-investment underwriting places greater emphasis on correctly identifying high conviction GPs and funds.

Approach #5: In-House

Pros:

- **Price:** No fees, no carry. While in-house is the **least expensive option in terms of fees paid to external parties**, significant resources would be needed to develop and maintain internal processes and controls to ensure the high quality underwriting that co-investing requires.
- **Portfolio Construction:** Decision-making entirely in the control of LACERS, and portfolio can be customized to meet diversification needs (industry/geography/size/type).

Cons:

- **Speed:** Limited due diligence window (typically 2 to 6 weeks) and strong GP preference for partners that can **reach a quick decision** would require significant flexibility from LACERS staff.
- **Access:** Deals would be **sourced from LACERS existing and future GP relationships**.
- **Diversification:** Fewer deals and a highly concentrated portfolio means **higher overall risk**.
- **Timing:** Significant time required to build processes and controls, which could include adding staff and additional training. Thus, the in-house option would likely be the slowest to deploy a meaningful amount of capital to co-investment opportunities.
- **Expertise:** Staff must have the necessary skills and resources to capably underwrite potential opportunities and to decide in a timely manner whether to invest.

Implementation Plan: Recommendation

Start with Approach #1: Comingled Funds

- Top quartile managers are bringing comingled funds to market in the next few months.
- Historical performance is comparable to investments in traditional private equity funds, but come with much lower fees.
- LACERS would have the opportunity to become more familiar with the GP's investment teams and approach to co-investing.
- Designate up to 10% of each year's private equity commitments for co-investing and make investments of \$25 million to \$50 million with one or two top quartile managers.
- Current policy allows for investing in a comingled fund and staff will follow the current private equity process with TorreyCove leading the due diligence efforts (with no amendments to the existing contract).

If the program is able to deliver consistent risk adjusted returns with a lower fee structure, move forward with Approach #2: Separately Managed Account with the highest conviction manager.

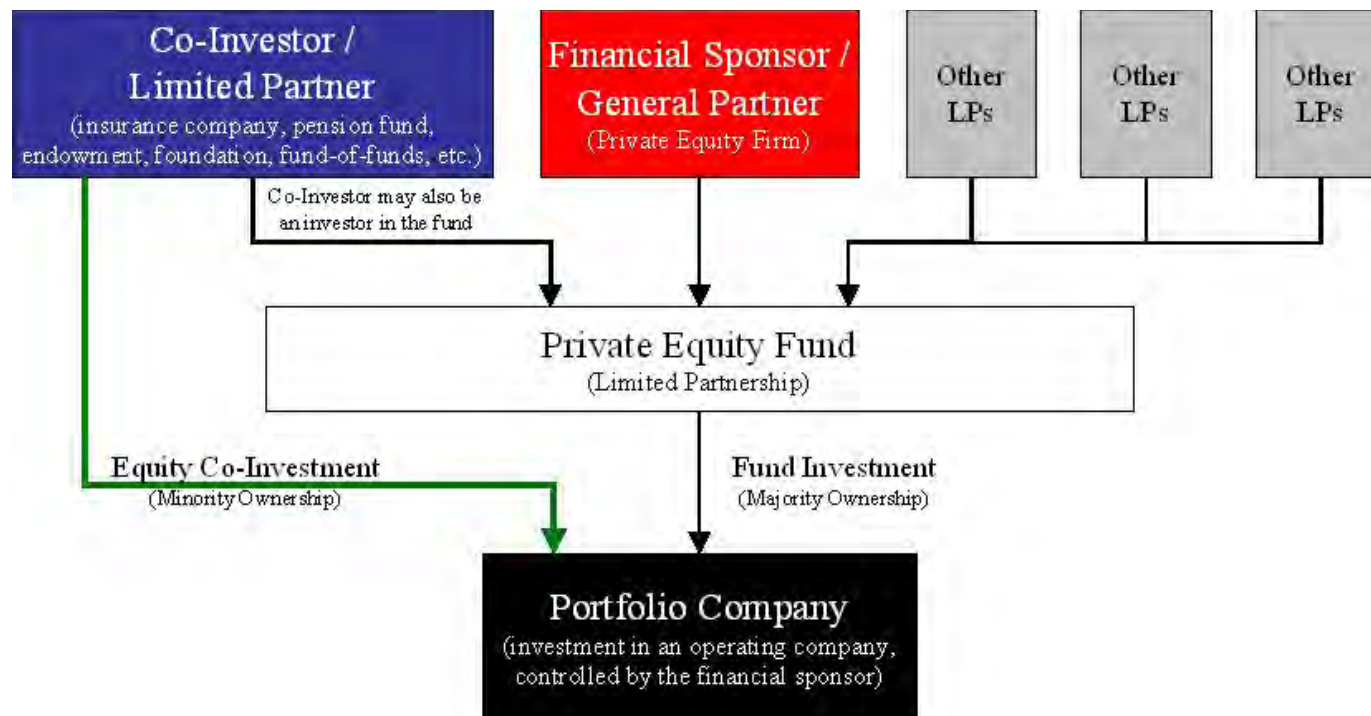
- This step will require more significant commitments (i.e. \$200 million over a few years), and also likely will require updating the investment policy.



APPENDIX

Appendix: What are co-investments?

In a private equity fund, the General Partner (i.e. private equity manager or GP) invests in multiple portfolio companies using capital provided by limited partners (LPs). The investments are held in a structure that comingles the capital of all investors in the fund. Co-investments allow LPs to bypass the comingled fund vehicle and invest additional capital directly into one of the portfolio companies (as shown in the Equity Co-Investment line).



Appendix: Current Policy Language

D. Investment Guidelines

1. Eligible Investments

LACERS will invest in top tier limited partnership interests of pooled vehicles covering the broad spectrum of private investments as follows:

- a) Private equity partnerships – including corporate finance/buyout, special situations, and venture capital. Special situations is a broad investment strategy, which includes mezzanine and distressed debt partnerships, fund-of-funds (both direct and secondary), industry-focused, and multi-stage “generalist” partnerships;
- b) Co-investments – direct investments made alongside a partnership;
- c) Direct secondary purchases – purchases of an existing partnership interest or pool of partnership interests from an investor;
- d) Other privately structured investments that are deemed appropriate within LACERS’ risk profile that may include direct investments;
- e) Consider sale of partnership fund interest on the secondary market or to other limited partner(s) or potential buyer(s).

Appendix: Risks and Concerns of Co-Investments

Adverse Selection and Concentrations

- Evidence is mixed as to co-investments outperforming traditional private equity funds.
 - Because GPs select the companies in which to co-invest, this suggests that GPs may not have the ability to pick the outperformers from their own portfolio of companies.

- Potential to double down on bad investments if the LACERS is already invested in the co-investment company through an investment in the private equity fund.
 - Potential headline risk/embarrassment if a co-investment is a complete loss.
 - Possibility that co-investment underperformance could impair the LP-GP relationship going forward.

- Because building a co-investment portfolio can be a slow and deliberate process, concentration risk could be heightened in the early stages when portfolio consists of very few companies.
 - The pace at which co-investment opportunities present themselves can be lumpy, making it more difficult to create a portfolio diversified by vintage year. In addition, not all GPs offer co-investment opportunities.

- Concern that the GP may be operating outside of their area of expertise when presenting co-investment opportunities, since the co-investment may not meet fund-level portfolio construction parameters.

Appendix: Risks and Concerns of Co-investments (continued)

Time Pressure

- Quick turnaround required for a decision: Ability of staff and consultant to conduct thorough underwriting and sourcing of opportunities
- Competition from other LPs to get co-investment allocations from GPs
- Overreliance on GP marketing information for co-investment underwriting; minimal LP diligence on portfolio company

Underwriting

- According to interviews conducted by staff, some LPs select just 5% of the co-investment opportunities given to them
- Do LPs have necessary staff and resources for an accurate and thorough underwriting of the opportunities? LPs need to take on the GP role but may lack the skills to execute due diligence.
- Will GPs provide enough information to the LPs to make an informed decision?

PORTFOLIO PERFORMANCE REVIEW

LOS ANGELES CITY EMPLOYEES' RETIREMENT SYSTEM

Quarter Ending December 31, 2019



BOSTON | ATLANTA | CHARLOTTE | CHICAGO | DETROIT | LAS VEGAS | PORTLAND | SAN FRANCISCO

TABLE OF CONTENTS

	<u>Tab</u>
Executive Summary	1
Market Outlook	2
Asset Class Policy Overview	3
Performance Overview	4
U.S. Equity Performance	5
Non-U.S. Equity Performance	6
Core Fixed Income Performance	7
Credit Opportunities Performance	8
Real Assets Performance	9
Appendix	
U.S. Equity Manager Performance	10
Non-U.S. Manager Performance	11
Core Fixed Income Manager Performance	12
Credit Opportunities Manager Performance	13
Real Assets Manager Performance	14
Market Environment	15
Definitions	16
Disclosures	17



EXECUTIVE SUMMARY

NEPC, LLC

PERFORMANCE OVERVIEW

Q4 Market Summary

Macro			Equity			Credit			Real Assets		
US Dollar	VIX	US 10-Yr	S&P 500	MSCI EAFE	MSCI EM	US Agg.	High Yield	Dollar EMD	Oil	Gold	REITS
											
-3.0%	-2.5	24 bps	9.1%	8.2%	11.8%	0.2%	2.6%	1.8%	13.0%	3.1%	0.6%

	Market Value	3 Mo	Rank	Fiscal YTD	Rank	1 Yr	Rank	3 Yrs	Rank	5 Yrs	Rank	10 Yrs	Rank	15 Yrs	Rank	Inception	Inception Date
LACERS Master Trust	\$18,867,824,935	5.34%	40	5.87%	38	18.08%	28	10.09%	15	7.56%	27	8.97%	19	7.13%	14	8.30%	Oct-94
Policy Index		6.20%	6	6.91%	7	20.88%	9	10.46%	8	7.78%	19	8.92%	20	7.08%	20	8.29%	Oct-94
InvMetrics Public DB \$1-50B Gross Median		5.08%		5.65%		16.86%		9.07%		6.98%		8.10%		6.43%		7.89%	Oct-94

Note: Performance is gross of fees

Global risk assets rallied during the quarter as prospects of a trade deal increased and global central banks continued easing monetary policy to offset economic growth concerns

- The U.S. Equity composite under-performed due to mid and small cap manager selection. The Non-U.S. Equity composite outperformed due to manager outperformance.

Dollar weakness provided a tailwind for international and emerging market asset returns

- The Emerging Markets composite outperformed developed markets but underperformed the benchmark due to manager underperformance.

Increasing yields caused the spread between the 10-year and 3-month Treasuries to move into positive territory, widening to 37 basis points – marking the largest spread since January 2019

- The Core Fixed Income composite outperformed the benchmark due to manager selection.



Market segment (index representation) as follows: US Dollar (DXY Index), VIX (CBOE Volatility Index), US 10-Year (US 10-Year Treasury Yield), S&P 500 (US Equity), MSCI EAFE Index (International Developed Equity), MSCI Emerging Markets (Emerging Markets Equity), US Agg (Barclays US Aggregate Bond Index), High Yield (Barclays US High Yield Index), Dollar EMD (JPM EMBI Global Diversified Index), Crude Oil (WTI Crude Oil Spot), Gold (Gold Price Spot), and REITs (NAREIT Composite Index). Source: FactSet

MARKET OUTLOOK

NEPC, LLC

MACRO PERFORMANCE OVERVIEW

Q4 Macro Market Summary

Global central banks continued easing with the Fed cutting rates and the ECB reigniting monthly bond purchases

Emerging market currencies appreciated relative to the dollar as trade concerns eased

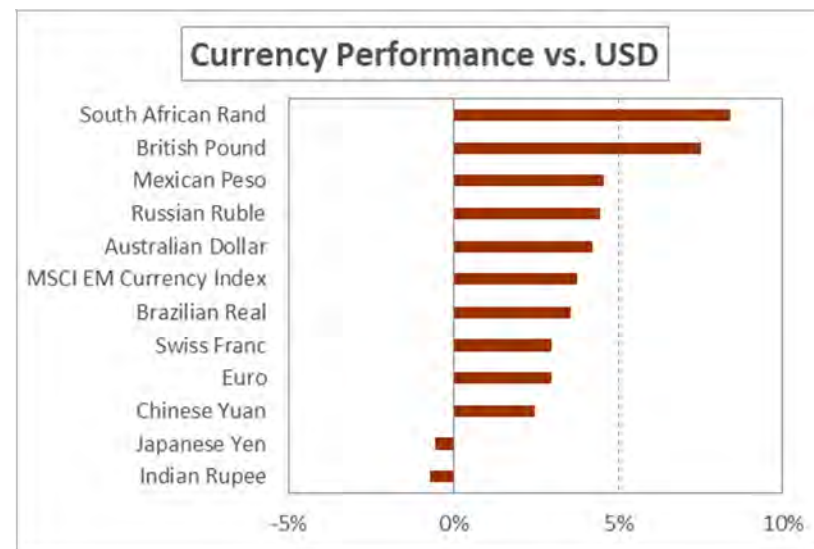
Global government bond yields increased reflecting optimism around trade and expected growth

	Yield 9/30/19	Yield 12/31/19	\Delta
US 10-Year	1.68%	1.92%	+0.24%
US 30-Year	2.12%	2.39%	+0.27%
US Real 10-Year	0.15%	0.15%	-
German 10-Year	-0.58%	-0.19%	+0.40%
Japan 10-Year	-0.23%	-0.02%	+0.21%
China 10-Year	3.17%	3.20%	+0.03%
EM Local Debt	5.21%	5.22%	+0.01%

Source: FactSet

Central Banks	Current Rate	CPI YOY	Notes from the Quarter
Federal Reserve	1.50% - 1.75%	2.0%	The Fed cut interest rates by 25 basis points in October and signaled a pause from further rate cuts
European Central Bank	0.00%	1.0%	The ECB maintained its current benchmark interest rates and restarted monthly bond purchases of €20 billion in November
Bank of Japan	-0.10%	0.5%	The BoJ will continue its ultra-easy QE program with inflation remaining well below target

Source: FactSet



Source: FactSet



EQUITY PERFORMANCE OVERVIEW

Q4 Equity Market Summary

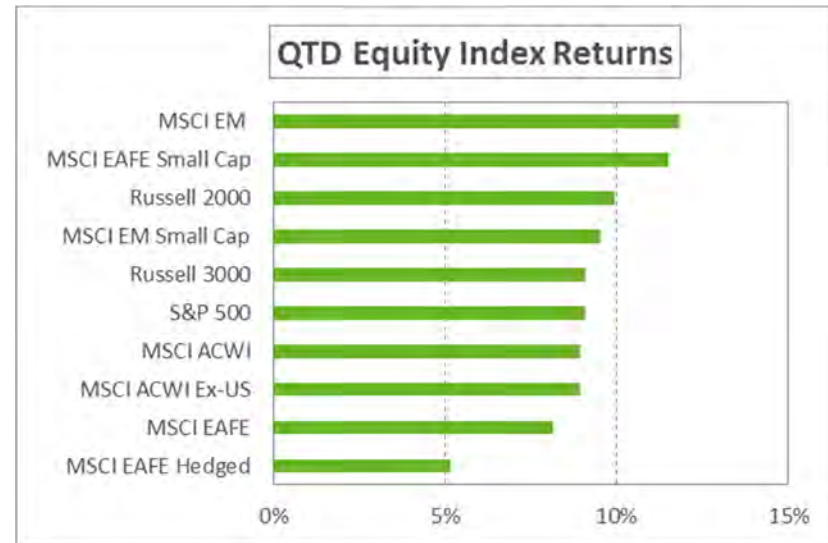
Global equities posted stellar returns in Q4, adding to already sizable year-to-date gains

Dollar weakness provided a boon to international and emerging market returns

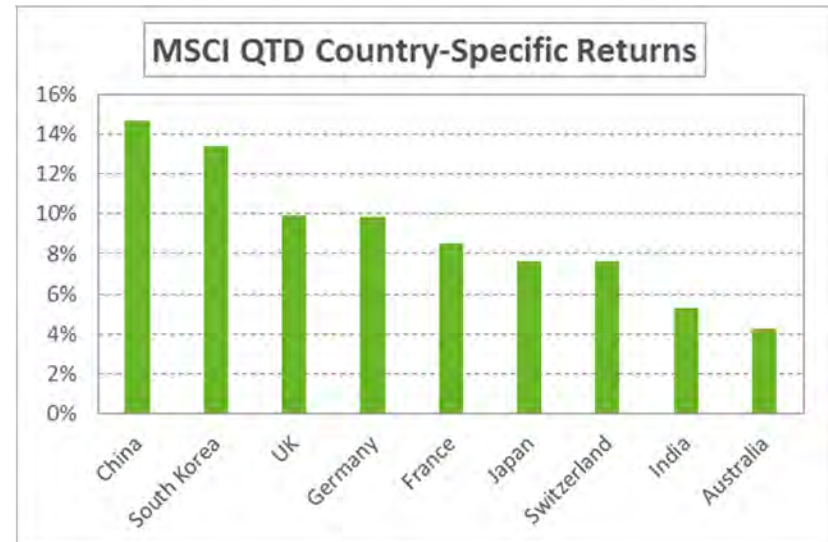
Chinese equities outperformed broad emerging market equities – following news of a potential trade deal between the US and China

Russell 3000 QTD Sector Returns	
Technology	+14.3%
Health Care	+14.9%
Consumer Discretionary	+6.3%
Consumer Staples	+4.7%
Energy	+5.7%
Materials & Processing	+7.0%
Producer Durables	+6.4%
Financial Services	+7.6%
Utilities	+1.5%

Source: FactSet



Source: FactSet



Source: FactSet



CREDIT PERFORMANCE OVERVIEW

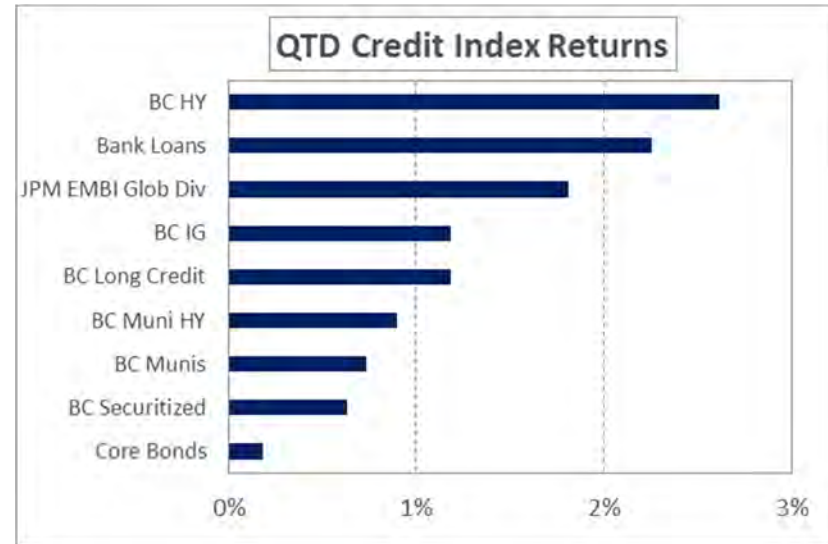
Q4 Credit Market Summary

Return-seeking credit broadly outperformed safe-haven assets with spread tightening reflecting risk on sentiment

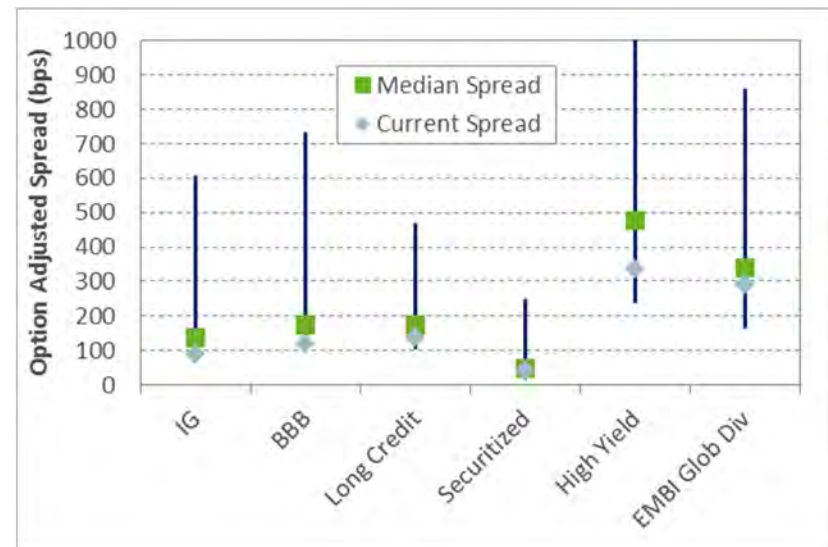
In most areas of credit, spreads moved lower and remain well below long-term median levels

Credit Spread (Basis Points)	9/30/2019	12/31/2019	Δ
BC IG Credit	115	93	-22
BC Long Credit	167	139	-28
BC Securitized	47	42	-5
BC High Yield	373	336	-37
Muni HY	250	226	-24
JPM EMBI	337	291	-46
Bank Loans - Libor	398	372	-25

Source: FactSet



Source: FactSet



Source: FactSet; Ranges calculated since 11/30/2000



REAL ASSETS PERFORMANCE OVERVIEW

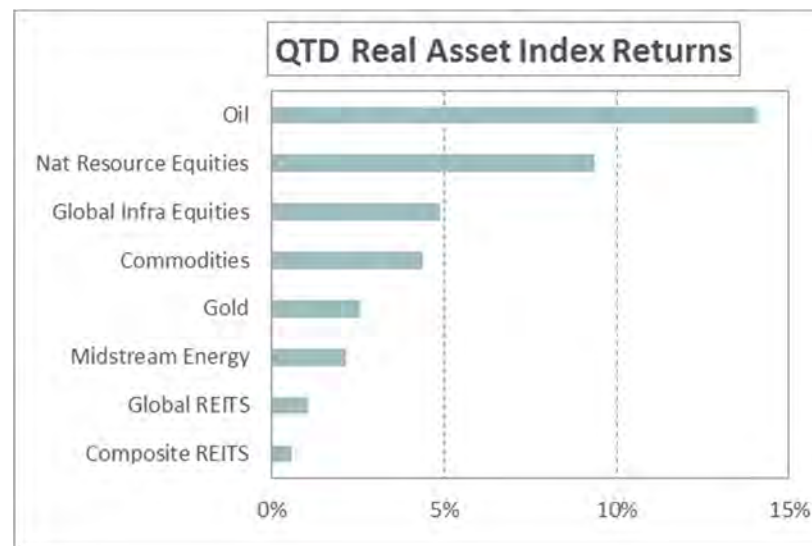
Q4 Real Assets Market Summary

Spot WTI crude oil increased 13.0% as a result of OPEC production cuts and easing US-China trade concerns

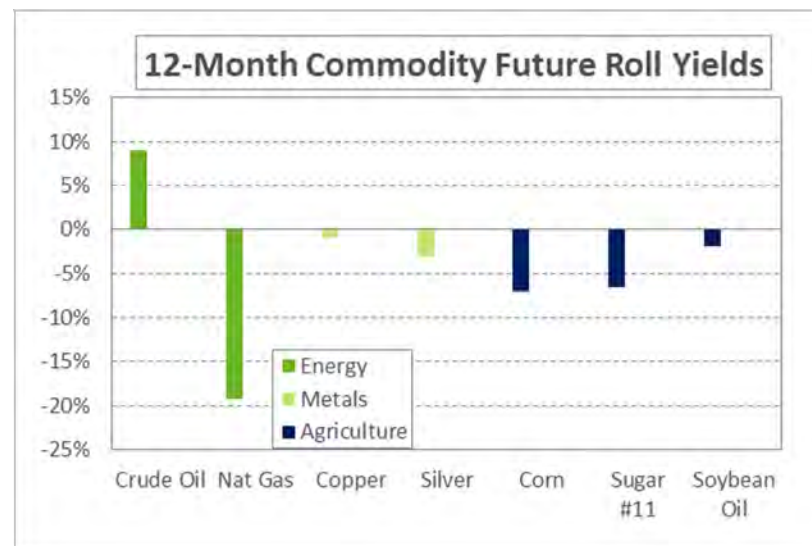
The expectation of modestly higher inflation caused gold and other inflation-sensitive assets to rally

Real Asset Yields	9/30/19	12/31/19
Midstream Energy	6.4%	6.4%
Core Real Estate	4.5%	4.4%
Composite REITs	4.0%	4.1%
Global REITs	4.1%	4.2%
Global Infrastructure Equities	4.2%	4.0%
Natural Resource Equities	4.3%	3.9%
US 10-Year Breakeven Inflation	1.49%	1.77%
Commodity Index Roll Yield	-3.0%	-1.7%
10-Year TIPS Real Yield	0.2%	0.2%

Source: FactSet



Source: FactSet



Source: FactSet

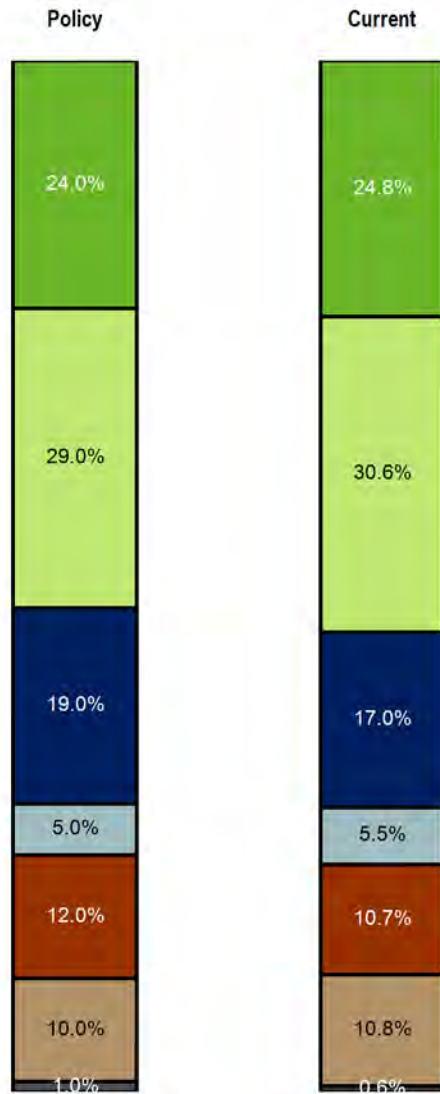


ASSET CLASS POLICY OVERVIEW

NEPC, LLC

Los Angeles City Employees' Retirement System

TOTAL FUND ASSET ALLOCATION VS. POLICY



Asset Allocation vs. Target						
	Current	Policy	Current Difference*	Policy Range	Within Range	
U.S. Equity	\$4,671,501,921	24.00%	24.76%	0.76%	19.00% - 29.00%	Yes
Non-US Equity	\$5,770,746,991	29.00%	30.59%	1.59%	24.00% - 34.00%	Yes
Core Fixed Income	\$3,211,478,959	19.00%	17.02%	-1.98%	15.00% - 22.00%	Yes
Opportunistic Credit	\$1,044,491,951	5.00%	5.54%	0.54%	0.00% - 10.00%	Yes
Private Equity	\$2,021,711,983	12.00%	10.72%	-1.28%		Yes
Real Assets	\$2,040,951,824	10.00%	10.82%	0.82%	7.00% - 13.00%	Yes
Cash	\$106,941,305	1.00%	0.57%	-0.43%	0.00% - 2.00%	Yes
Total	\$18,867,824,935	100.00%	100.00%			

*Difference between Policy and Current Allocation

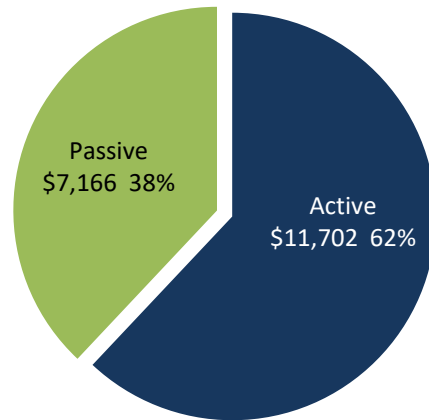
Note: Policy Target Asset Allocation does not reflect the new target asset allocation adopted on April 10, 2018. Implementation of the new asset allocation is currently in progress.



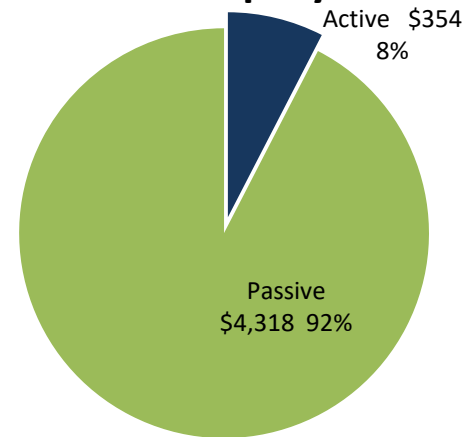
ACTIVE VS. PASSIVE MANAGER BREAKDOWN

Note: Market values shown in millions \$(000).

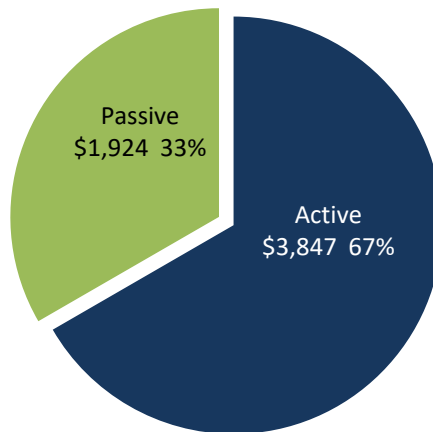
Total Fund



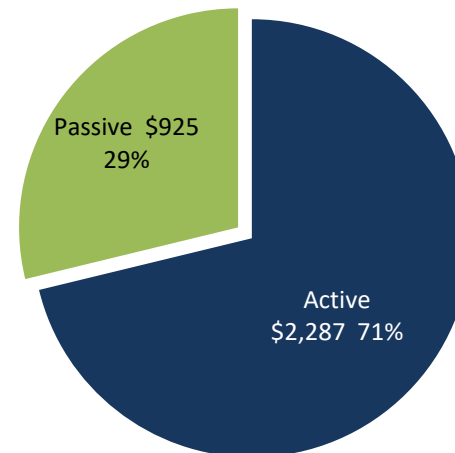
U.S. Equity



Non-U.S. Equity



Core Fixed Income



- Of the Total Fund, LACERS allocated 62% to active managers and 38% to passive managers.

- Credit Opportunities, Private Equity, and Real Assets programs are active and therefore are not shown.



PERFORMANCE OVERVIEW

NEPC, LLC

TOTAL FUND PERFORMANCE SUMMARY (GROSS OF FEES)

	Market Value	3 Mo	Rank	Fiscal YTD	Rank	1 Yr	Rank	3 Yrs	Rank	5 Yrs	Rank	10 Yrs	Rank	15 Yrs	Rank	Inception	Inception Date
LACERS Master Trust	\$18,867,824,935	5.34%	40	5.87%	38	18.08%	28	10.09%	15	7.56%	27	8.97%	19	7.13%	14	8.30%	Oct-94
Policy Index		6.20%	6	6.91%	7	20.88%	9	10.46%	8	7.78%	19	8.92%	20	7.08%	20	8.29%	Oct-94
InvMetrics Public DB \$1-50B Gross Median		5.08%		5.65%		16.86%		9.07%		6.98%		8.10%		6.43%		7.89%	Oct-94

Over the past five years, the Fund returned 7.56% underperforming the policy index by 0.22% and ranked in the 27th percentile in the Public Funds \$1 Billion- \$50 Billion universe. The Fund's volatility was 6.80% and ranked in the 63rd percentile over this period. The Fund's risk-adjusted performance, as measured by the Sharpe Ratio, ranks in the 33rd percentile in its peer group.

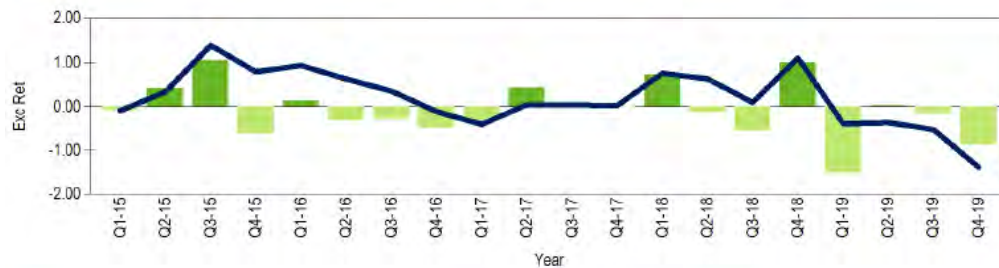
Over the past three years, the Fund returned 10.09% underperforming the policy index by 0.37% and ranked in the 15th percentile in its peer group. The Fund's volatility ranks in the 60th percentile resulting in a three-year Sharpe Ratio of 1.29 and ranked in the 28th percentile.

In the one-year ended December 31, 2019, the Fund experienced a net investment gain of \$2.92 billion, which includes a net investment gain of \$962.74 million during the fourth calendar quarter. Assets increased from \$16.27 billion twelve months ago to \$18.87 billion on December 31, 2019. The Fund returned 18.08%, underperforming the policy index by 2.80% and ranked in the 28th percentile in its peer group.

All asset classes were within policy range as of December 31, 2019.

The InvMetrics Public Funds \$1 Billion- \$50 Billion Universe contains 62 observations for the period ending December 31, 2019.

Quarterly and Cumulative Excess Performance



5 Years Ending December 31, 2019								
	Annualized Return (%)	Rank	Annualized Standard Deviation	Rank	Sharpe Ratio	Rank	Sortino Ratio RF	Rank
LACERS Master Trust	7.56%	27	6.80%	63	0.96	33	1.29	29
Policy Index	7.78%	19	7.83%	89	0.86	61	1.16	45
InvMetrics Public DB \$1-50B Gross Median	6.98%	--	6.46%	--	0.89	--	1.12	--

3 Years Ending December 31, 2019								
	Annualized Return (%)	Rank	Annualized Standard Deviation	Rank	Sharpe Ratio	Rank	Sortino Ratio RF	Rank
LACERS Master Trust	10.09%	15	6.55%	60	1.29	28	1.38	33
Policy Index	10.46%	8	7.56%	88	1.17	54	1.36	37
InvMetrics Public DB \$1-50B Gross Median	9.07%	--	6.24%	--	1.19	--	1.26	--



Los Angeles City Employees' Retirement System

TOTAL FUND PERFORMANCE DETAIL (GROSS)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
LACERS Master Trust	18,867,824,935	100.00	5.34	5.87	18.08	10.09	7.56	8.97	8.30	Oct-94
Policy Index			<u>6.20</u>	<u>6.91</u>	<u>20.88</u>	<u>10.46</u>	<u>7.78</u>	<u>8.92</u>	<u>8.29</u>	Oct-94
Over/Under			-0.86	-1.04	-2.80	-0.37	-0.22	0.05	0.01	
U.S. Equity	4,671,501,921	24.76	9.01	10.02	30.73	14.20	11.20	13.41	10.69	Oct-94
U.S. Equity Blend			<u>9.10</u>	<u>10.37</u>	<u>31.02</u>	<u>14.57</u>	<u>11.24</u>	<u>13.42</u>	<u>9.65</u>	Oct-94
Over/Under			-0.09	-0.35	-0.29	-0.37	-0.04	-0.01	1.04	
Non-U.S. Equity	5,770,746,991	30.59	9.55	7.39	22.55	11.08	6.80	6.25	5.42	Nov-94
MSCI ACWI ex USA			<u>8.92</u>	<u>6.96</u>	<u>21.51</u>	<u>9.87</u>	<u>5.51</u>	<u>4.97</u>	<u>5.23</u>	Nov-94
Over/Under			0.63	0.43	1.04	1.21	1.29	1.28	0.19	
Core Fixed Income	3,211,478,959	17.02	0.29	2.46	9.09	4.22	3.36		3.49	Jul-12
Core Fixed Income Blend			<u>0.18</u>	<u>2.45</u>	<u>8.72</u>	<u>4.03</u>	<u>3.05</u>		<u>2.90</u>	Jul-12
Over/Under			0.11	0.01	0.37	0.19	0.31		0.59	
Credit Opportunities	1,044,491,951	5.54	2.19	3.72	14.20	6.92	5.86		5.97	Jun-13
Credit Opportunities Blend			<u>2.33</u>	<u>3.76</u>	<u>14.58</u>	<u>6.50</u>	<u>6.20</u>		<u>6.16</u>	Jun-13
Over/Under			-0.14	-0.04	-0.38	0.42	-0.34		-0.19	
Real Assets	2,040,951,824	10.82	1.49	2.68	8.80	5.76	6.12	6.99	6.32	Nov-94
CPI + 5% (Unadjusted)			<u>1.31</u>	<u>2.80</u>	<u>7.39</u>	<u>7.20</u>	<u>6.90</u>	<u>6.83</u>	<u>7.28</u>	Nov-94
Over/Under			0.18	-0.12	1.41	-1.44	-0.78	0.16	-0.96	
Public Real Assets	1,213,466,379	6.43	1.41	2.99	11.58	3.86	2.97		2.17	Jun-14
Public Real Assets Blend			<u>1.02</u>	<u>1.74</u>	<u>10.23</u>	<u>2.53</u>	<u>1.14</u>		<u>-0.10</u>	Jun-14
Over/Under			0.39	1.25	1.35	1.33	1.83		2.27	
Private Real Estate	809,255,880	4.29	1.64	2.33	5.67	7.61	8.81	8.47	6.89	Oct-94
Real Estate Blend			<u>1.71</u>	<u>3.25</u>	<u>6.18</u>	<u>7.95</u>	<u>9.84</u>	<u>11.31</u>	<u>9.80</u>	Oct-94
Over/Under			-0.07	-0.92	-0.51	-0.34	-1.03	-2.84	-2.91	
Private Equity	2,021,711,983	10.72	0.00	2.40	6.28	12.72	10.42	12.70	10.41	Nov-95
Private Equity Blend			<u>9.88</u>	<u>11.98</u>	<u>34.86</u>	<u>17.97</u>	<u>14.55</u>	<u>17.06</u>	<u>13.27</u>	Nov-95
Over/Under			-9.88	-9.58	-28.58	-5.25	-4.13	-4.36	-2.86	
Cash	106,941,305	0.57								



Los Angeles City Employees' Retirement System

TOTAL FUND PERFORMANCE DETAIL (NET)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
LACERS Master Trust	18,867,824,935	100.00	5.29	5.78	17.88	9.89	7.37	8.77		Oct-94
Policy Index			6.20	6.91	20.88	10.46	7.78	8.92		Oct-94
Over/Under			-0.91	-1.13	-3.00	-0.57	-0.41	-0.15		
U.S. Equity	4,671,501,921	24.76	9.00	9.99	30.65	14.13	11.11	13.25		Oct-94
U.S. Equity Blend			9.10	10.37	31.02	14.57	11.24	13.42		Oct-94
Over/Under			-0.10	-0.38	-0.37	-0.44	-0.13	-0.17		
Non-U.S. Equity	5,770,746,991	30.59	9.46	7.19	22.11	10.67	6.42	5.89		Nov-94
MSCI ACWI ex USA			8.92	6.96	21.51	9.87	5.51	4.97		Nov-94
Over/Under			0.54	0.23	0.60	0.80	0.91	0.92		
Core Fixed Income	3,211,478,959	17.02	0.27	2.41	8.98	4.12	3.26		3.37	Jul-12
Core Fixed Income Blend			0.18	2.45	8.72	4.03	3.05		2.90	Jul-12
Over/Under			0.09	-0.04	0.26	0.09	0.21		0.47	
Credit Opportunities	1,044,491,951	5.54	2.12	3.57	13.86	6.57	5.50		5.62	Jun-13
Credit Opportunities Blend			2.33	3.76	14.58	6.50	6.20		6.16	Jun-13
Over/Under			-0.21	-0.19	-0.72	0.07	-0.70		-0.54	
Real Assets	2,040,951,824	10.82	1.45	2.60	8.63	5.60	5.96	6.84		Nov-94
CPI + 5% (Unadjusted)			1.31	2.80	7.39	7.20	6.90	6.83		Nov-94
Over/Under			0.14	-0.20	1.24	-1.60	-0.94	0.01		
Public Real Assets	1,213,466,379	6.43	1.36	2.89	11.36	3.61	2.74		1.96	Jun-14
Public Real Assets Blend			1.02	1.74	10.23	2.53	1.14		-0.10	Jun-14
Over/Under			0.34	1.15	1.13	1.08	1.60		2.06	
Private Real Estate	809,255,880	4.29	1.62	2.29	5.57	7.53	8.72	8.35		Oct-94
Real Estate Blend			1.71	3.25	6.18	7.95	9.84	11.31		Oct-94
Over/Under			-0.09	-0.96	-0.61	-0.42	-1.12	-2.96		
Private Equity	2,021,711,983	10.72	0.00	2.40	6.29	12.73	10.44	12.71		Nov-95
Private Equity Blend			9.88	11.98	34.86	17.97	14.55	17.06		Nov-95
Over/Under			-9.88	-9.58	-28.57	-5.24	-4.11	-4.35		
Cash	106,941,305	0.57								



Los Angeles City Employees' Retirement System

TOTAL FUND RISK STATISTICS (NET)

3 Years Ending December 31, 2019													
	% of Total MV (%)	Annualized Return (%)	Rank	Annualized Standard Deviation	Rank	Annualized Alpha Jensen (%)	Rank	Information Ratio	Rank	Sortino Ratio RF	Rank	Tracking Error	Rank
LACERS Master Trust	100.00%	9.89%	25	6.56%	60	0.64%	39	-0.44	--	1.35	40	1.28%	72
Total Equity	55.34%	12.22%	32	11.52%	70	0.13%	27	0.20	22	1.00	48	0.67%	16
U.S. Equity	24.76%	14.13%	40	12.50%	46	-0.56%	32	-0.80	--	0.99	35	0.55%	3
Non-U.S. Equity	30.59%	10.67%	31	11.68%	65	0.71%	35	0.82	10	1.07	37	0.98%	12
Developed ex-U.S.	23.13%	10.55%	51	11.29%	54	0.81%	44	0.69	38	1.00	69	1.42%	19
Emerging Markets	7.46%	10.91%	27	14.27%	83	-0.55%	34	-0.53	--	1.06	32	1.25%	1
Core Fixed Income	17.02%	4.12%	71	2.75%	74	0.24%	79	0.25	39	1.86	69	0.36%	16
Credit Opportunities	5.54%	6.57%	--	3.76%	--	0.42%	--	0.10	--	3.18	--	0.80%	--
Real Assets	10.82%	5.60%	--	2.19%	--	2.05%	--	-0.71	--	3.26	--	2.24%	--
Public Real Assets	6.43%	3.61%	--	3.90%	--	1.26%	--	0.62	--	0.95	--	1.74%	--
Private Real Estate	4.29%	7.53%	25	1.78%	47	8.02%	1	-0.10	--	2.53	76	4.21%	97
Private Equity	10.72%	12.73%	58	4.62%	18	13.16%	19	-0.36	--	10.70	58	14.61%	94

5 Years Ending December 31, 2019													
	% of Total MV (%)	Annualized Return (%)	Rank	Annualized Standard Deviation	Rank	Annualized Alpha Jensen (%)	Rank	Information Ratio	Rank	Sortino Ratio RF	Rank	Tracking Error	Rank
LACERS Master Trust	100.00%	7.37%	30	6.81%	63	0.50%	42	-0.33	--	1.24	34	1.24%	65
Total Equity	55.34%	8.55%	37	11.80%	70	0.23%	32	0.34	11	0.83	37	0.61%	6
U.S. Equity	24.76%	11.11%	29	12.36%	43	-0.22%	21	-0.21	--	1.01	24	0.62%	3
Non-U.S. Equity	30.59%	6.42%	49	12.39%	67	0.98%	32	0.84	1	0.69	30	1.09%	7
Developed ex-U.S.	23.13%	6.45%	69	12.05%	33	0.88%	57	0.51	38	0.68	63	1.53%	19
Emerging Markets	7.46%	5.11%	17	15.94%	93	-0.53%	42	-0.43	--	0.46	17	1.17%	1
Core Fixed Income	17.02%	3.26%	64	2.91%	61	0.34%	65	0.43	46	1.29	67	0.49%	21
Real Assets	10.82%	5.96%	--	2.31%	--	2.02%	--	-0.41	--	4.84	--	2.31%	--
Private Real Estate	4.29%	8.72%	38	1.88%	25	9.51%	1	-0.22	--	3.29	82	5.01%	95
Private Equity	10.72%	10.44%	73	4.17%	13	10.41%	27	-0.30	--	9.24	49	13.78%	80

Sortino Ratio RF = Sortino Ratio Risk Free. The risk free rate is the Citi 91 Day T-Bill Index.



PRIVATE MARKETS PERFORMANCE AS OF SEPTEMBER 30, 2019

Private Equity	10 Year IRR	Since Inception IRR	Since Inception Multiple
Aggregate Portfolio	12.8%	11.1%	1.55x
Core Portfolio	13.5%	11.7%	1.57x
Specialized Portfolio	4.8%	2.0%	1.13x
Russell 3000 + 300 bps	16.1%	13.9%	N/A

Real Estate	10 Year Return (Net)	Since Inception Return (Net)
Total Portfolio (TWR) ¹	7.97%	5.97%
NFI-ODCE + 80 basis points (TWR)	9.72%	7.10%

Note: The Total Value to Paid-In Ratio (TVPI) is a multiple that relates the current value of the private equity portfolio plus all distributions received to date with the total amount of capital contributed.

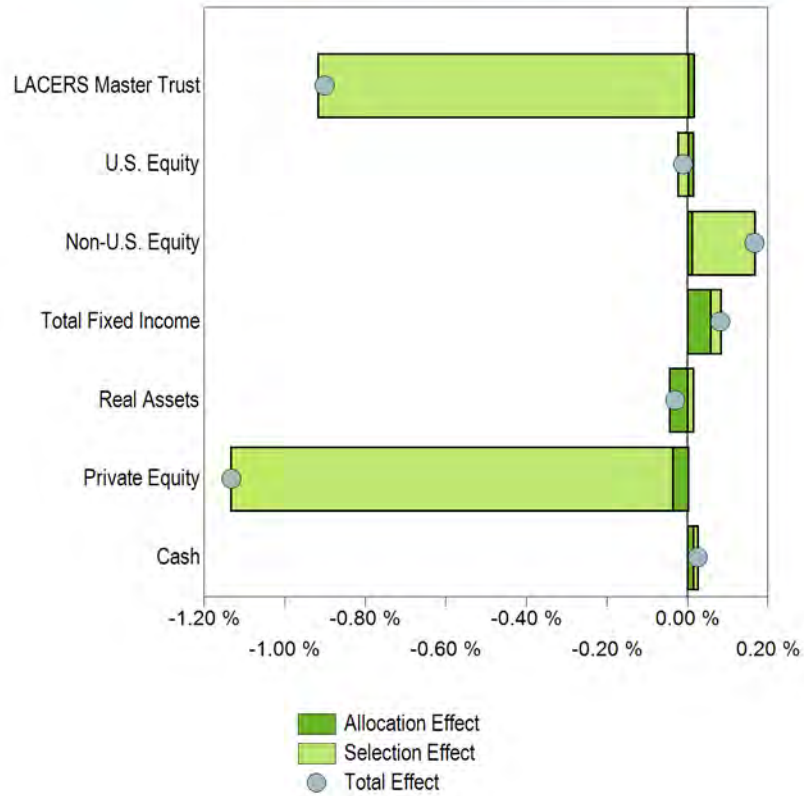
1 - IRR is not available for the Real Estate portfolio and therefore only time weighted returns (TWR) are reported.



Los Angeles City Employees' Retirement System

TOTAL FUND ATTRIBUTION ANALYSIS (NET)

Attribution Effects 3 Months Ending December 31, 2019



Attribution Summary 3 Months Ending December 31, 2019							
	Policy Weight	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Total Effects
U.S. Equity	24.00%	9.00%	9.10%	-0.10%	-0.02%	0.01%	-0.01%
Non-U.S. Equity	29.00%	9.46%	8.92%	0.54%	0.15%	0.01%	0.17%
Total Fixed Income	24.00%	0.73%	0.63%	0.10%	0.02%	0.06%	0.08%
Real Assets	10.00%	1.45%	1.31%	0.14%	0.01%	-0.04%	-0.03%
Private Equity	12.00%	0.00%	9.88%	-9.88%	-1.10%	-0.04%	-1.13%
Cash	1.00%	1.76%	0.39%	1.37%	0.01%	0.02%	0.03%
Total	100.00%	5.30%	6.20%	-0.90%	-0.92%	0.02%	-0.90%

Wtd. = Weighted

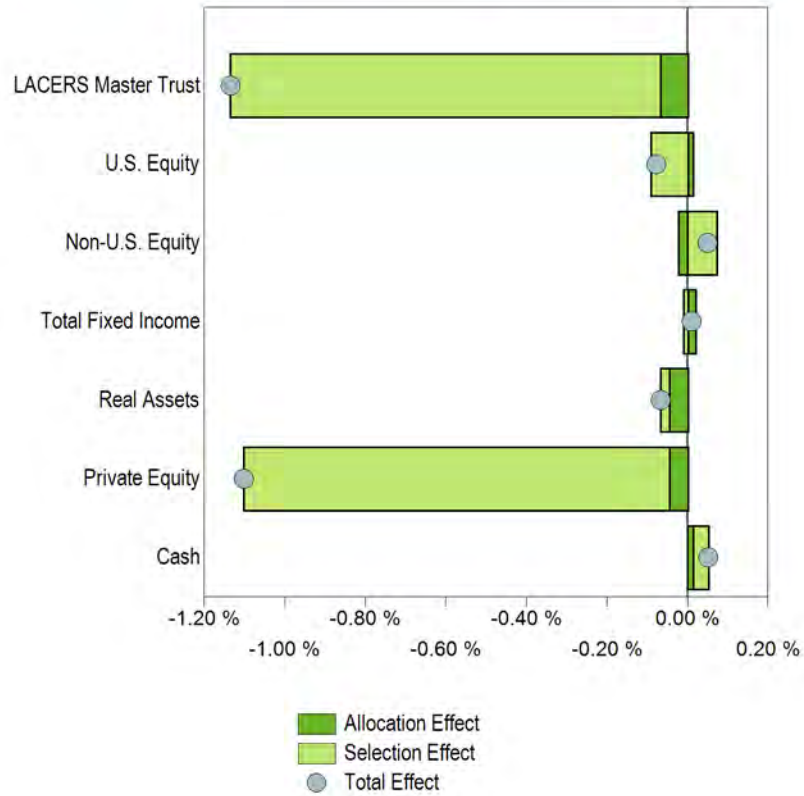
Note: Policy Target Asset Allocation does not reflect the new target asset allocation adopted on April 10, 2018. Implementation of the new asset allocation is currently in progress.



Los Angeles City Employees' Retirement System

TOTAL FUND ATTRIBUTION ANALYSIS (NET)

Attribution Effects
FYTD Ending December 31, 2019



Attribution Summary							
FYTD Ending December 31, 2019							
	Policy Weight	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Total Effects
U.S. Equity	24.00%	9.99%	10.37%	-0.37%	-0.09%	0.01%	-0.08%
Non-U.S. Equity	29.00%	7.19%	6.96%	0.23%	0.07%	-0.02%	0.05%
Total Fixed Income	24.00%	2.69%	2.73%	-0.04%	-0.01%	0.02%	0.01%
Real Assets	10.00%	2.60%	2.80%	-0.20%	-0.02%	-0.05%	-0.07%
Private Equity	12.00%	2.40%	11.98%	-9.58%	-1.06%	-0.05%	-1.10%
Cash	1.00%	4.86%	0.89%	3.97%	0.04%	0.01%	0.05%
Total	100.00%	5.77%	6.91%	-1.13%	-1.07%	-0.07%	-1.13%

Wtd. = Weighted

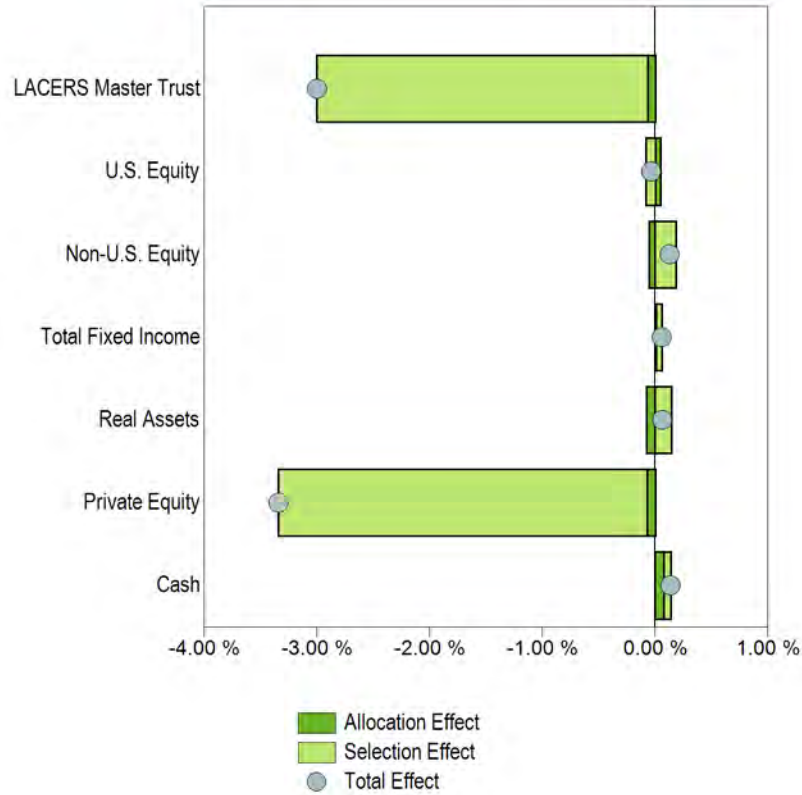
Note: Policy Target Asset Allocation does not reflect the new target asset allocation adopted on April 10, 2018. Implementation of the new asset allocation is currently in progress.



Los Angeles City Employees' Retirement System

TOTAL FUND ATTRIBUTION ANALYSIS (NET)

Attribution Effects 1 Year Ending December 31, 2019



Attribution Summary 1 Year Ending December 31, 2019							
	Policy Weight	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Total Effects
U.S. Equity	24.00%	30.65%	31.02%	-0.37%	-0.08%	0.04%	-0.04%
Non-U.S. Equity	29.00%	22.11%	21.51%	0.59%	0.18%	-0.05%	0.13%
Total Fixed Income	24.00%	10.13%	9.94%	0.19%	0.04%	0.01%	0.06%
Real Assets	10.00%	8.63%	7.39%	1.24%	0.14%	-0.08%	0.06%
Private Equity	12.00%	6.29%	34.86%	-28.57%	-3.27%	-0.08%	-3.34%
Cash	1.00%	9.20%	2.07%	7.13%	0.06%	0.08%	0.14%
Total	100.00%	17.88%	20.88%	-3.00%	-2.93%	-0.07%	-3.00%

Wtd. = Weighted

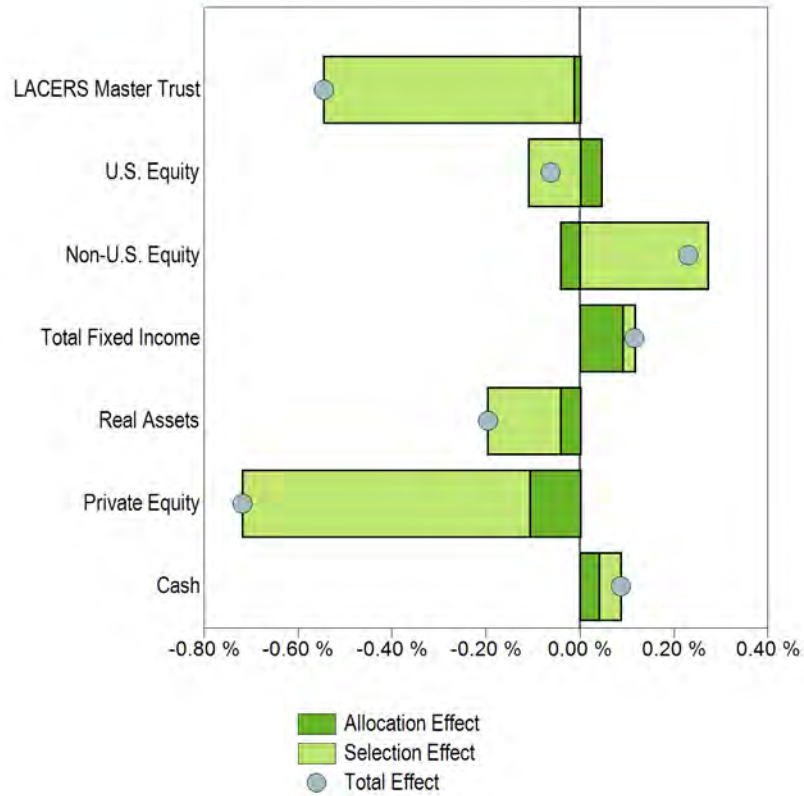
Note: Policy Target Asset Allocation does not reflect the new target asset allocation adopted on April 10, 2018. Implementation of the new asset allocation is currently in progress.



Los Angeles City Employees' Retirement System

TOTAL FUND ATTRIBUTION ANALYSIS (NET)

Attribution Effects 3 Years Ending December 31, 2019



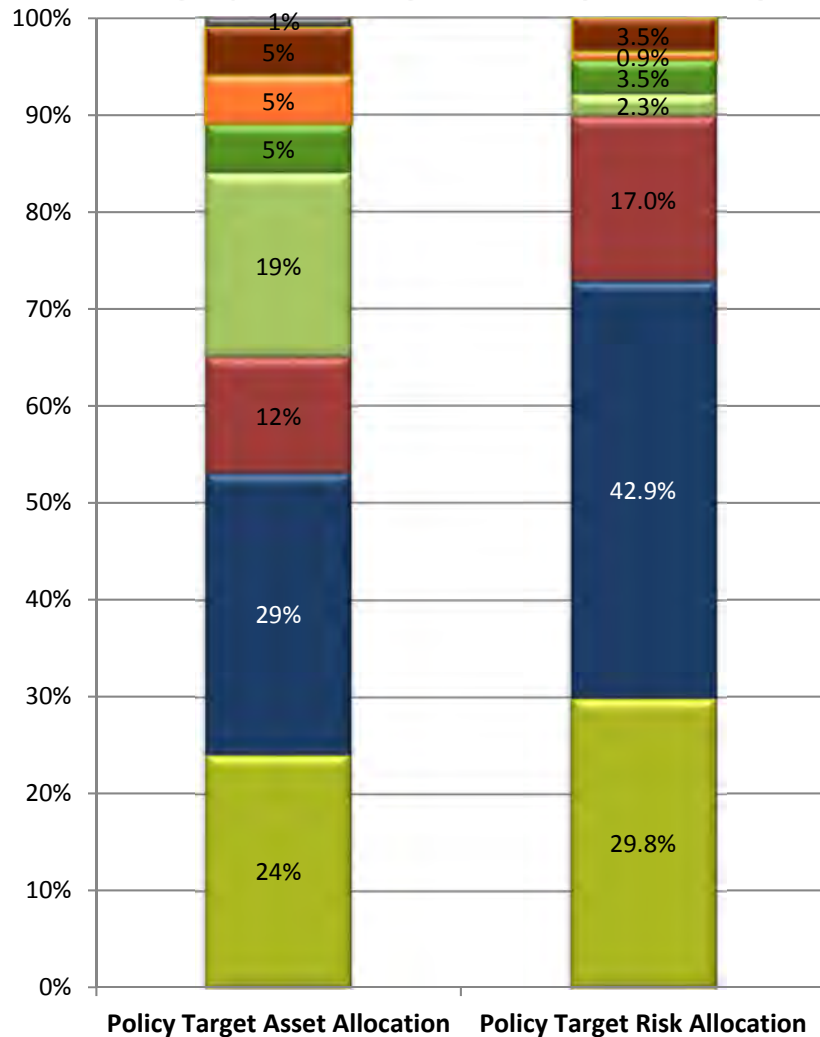
Attribution Summary 3 Years Ending December 31, 2019							
	Policy Weight	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Total Effects
U.S. Equity	24.00%	14.13%	14.57%	-0.44%	-0.11%	0.05%	-0.06%
Non-U.S. Equity	29.00%	10.67%	9.87%	0.81%	0.27%	-0.04%	0.23%
Total Fixed Income	24.00%	4.67%	4.55%	0.12%	0.02%	0.09%	0.12%
Real Assets	10.00%	5.60%	7.20%	-1.60%	-0.15%	-0.04%	-0.20%
Private Equity	12.00%	12.73%	17.97%	-5.24%	-0.61%	-0.11%	-0.72%
Cash	1.00%	8.33%	1.64%	6.68%	0.05%	0.04%	0.09%
Total	100.00%	9.92%	10.46%	-0.55%	-0.53%	-0.01%	-0.55%

Wtd. = Weighted

Note: Policy Target Asset Allocation does not reflect the new target asset allocation adopted on April 10, 2018. Implementation of the new asset allocation is currently in progress.



TOTAL FUND RISK ALLOCATION – ASSET ALLOCATION VS. RISK ALLOCATION



- Cash
- Private Real Estate
- Public Real Assets
- Credit Opportunities
- Core Fixed Income
- Private Equity
- Non-U.S. Equity
- U.S. Equity

- Public and Private Equity policy target asset allocation is 65%; accounts for 89.7% of the policy target portfolio risk.
- Core Fixed Income and Credit Opportunities policy allocation is 24%, accounting for 5.8% of the policy target portfolio risk.
- Real Assets (Private Real Estate and Public Real Assets) policy allocation is 10%, accounting for 4.4% of policy target portfolio risk.

Note: Policy Target Asset Allocation does not reflect the new target asset allocation adopted on April 10, 2018. Implementation of the new asset allocation is currently in progress.



PUBLIC MARKETS RISK BUDGET COMPARISON AS OF DECEMBER 31, 2019

Public Markets Asset Class	Target Risk Budget	Actual 3 Yr Tracking Error
U.S. Equity	0.50%	0.55%
Non-U.S. Equity	1.20%	0.98%
Core Fixed Income	1.00%	0.36%
Credit Opportunities	1.50%	0.80%
Public Real Assets*	3.00%	1.74%

- Current public market asset class composite tracking error statistics are compared to asset class target risk budgets to ensure active risks are within expectations.
- Risk budgets are to be evaluated over three-year periods, at minimum, to reflect a full market cycle.
- All equity public markets asset classes are within an appropriately narrow range of their respective risk budgets.
- Both Core Fixed Income and Credit Opportunities have exhibited lower than expected active risk.
- The Public Real Assets composite is not at its target strategy allocation.
- Note: A new Target Risk Budget was approved by the Board on August 14, 2018, and is not reflected in the table above. Implementation of the new asset allocation is in progress.

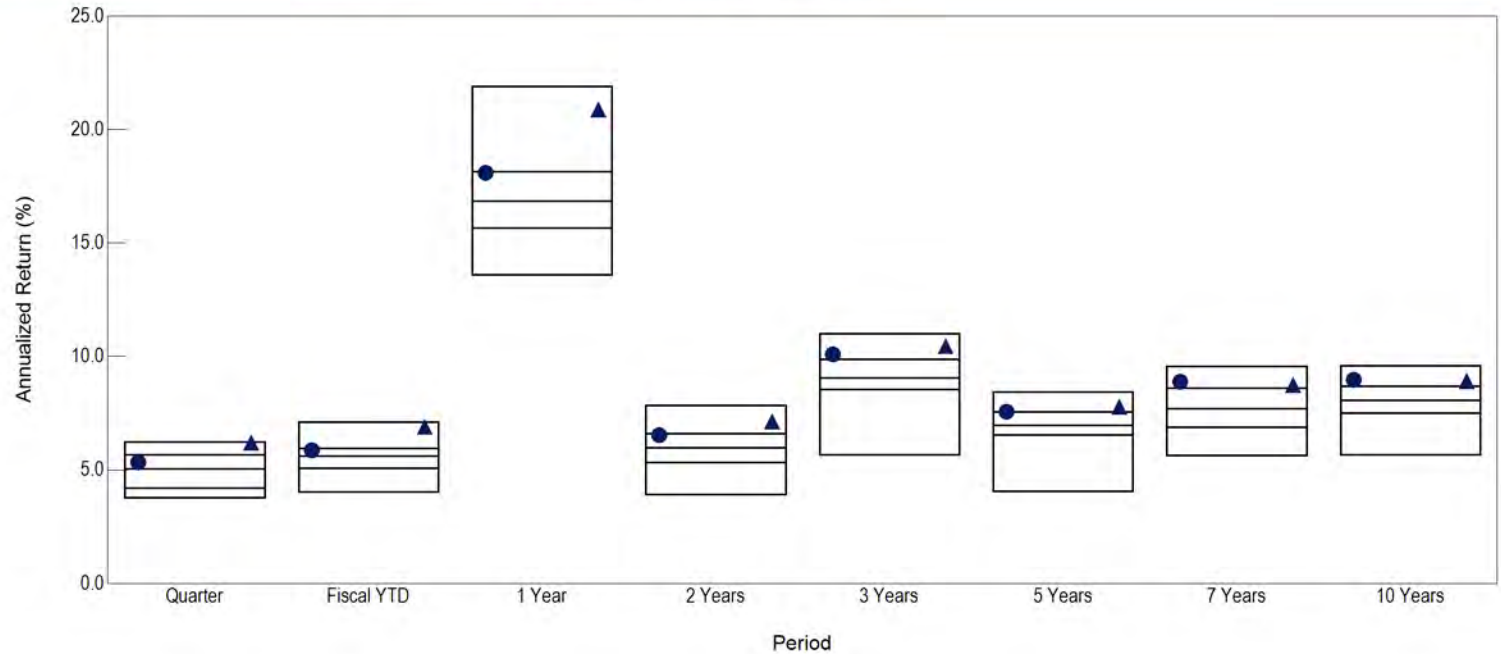
* The benchmark for the Public Real Assets composite is a custom policy benchmark that is comprised of the target weights of the public real asset components. The public real asset benchmark weights are 60% TIPS, 20% Commodities, 10% REITs, and 10% MLPs.



Los Angeles City Employees' Retirement System

TOTAL FUND RETURN SUMMARY VS. PEER UNIVERSE

LACERS Master Trust vs. InvMetrics Public DB \$1-50B Gross

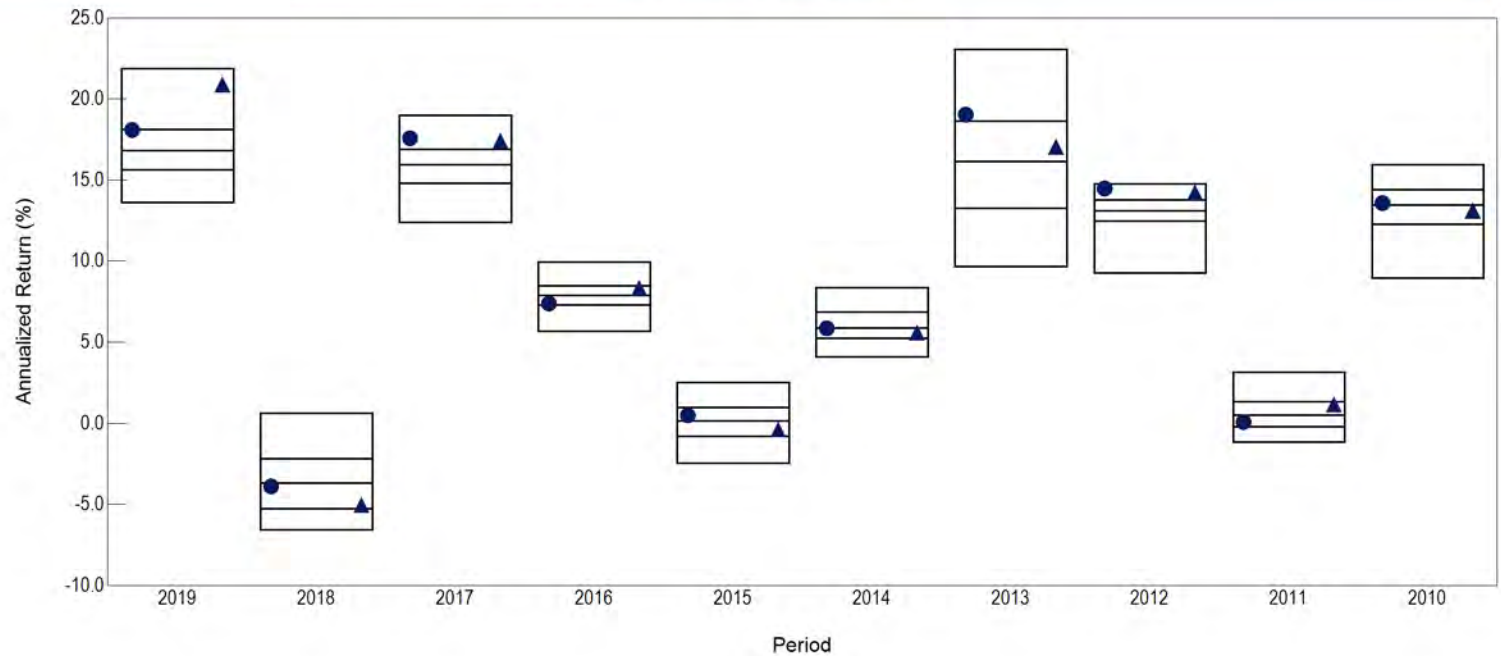


	Return (Rank)															
5th Percentile	6.24	7.10	21.88	7.83	10.99	8.42	9.56	9.60								
25th Percentile	5.69	5.97	18.16	6.61	9.89	7.57	8.62	8.71								
Median	5.08	5.65	16.86	5.99	9.07	6.98	7.73	8.10								
75th Percentile	4.23	5.09	15.68	5.35	8.56	6.56	6.90	7.53								
95th Percentile	3.79	4.05	13.63	3.96	5.69	4.08	5.67	5.69								
# of Portfolios	62	62	62	62	62	61	58	54								
● LACERS Master Trust	5.34	(40)	5.87	(38)	18.08	(28)	6.53	(30)	10.09	(15)	7.56	(27)	8.88	(18)	8.97	(19)
▲ Policy Index	6.20	(6)	6.91	(7)	20.88	(9)	7.14	(17)	10.46	(8)	7.78	(19)	8.74	(23)	8.92	(20)



TOTAL FUND RETURN SUMMARY VS. PEER UNIVERSE

LACERS Master Trust vs. InvMetrics Public DB \$1-50B Gross



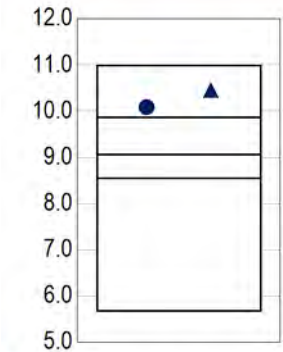
	Return (Rank)																			
5th Percentile	21.88	0.60	19.00	9.95	2.50	8.38	23.05	14.75	3.13	15.93										
25th Percentile	18.16	-2.13	16.94	8.51	1.00	6.90	18.67	13.81	1.37	14.45										
Median	16.86	-3.64	15.99	7.91	0.20	5.93	16.17	13.15	0.53	13.49										
75th Percentile	15.68	-5.22	14.83	7.34	-0.77	5.28	13.30	12.50	-0.16	12.30										
95th Percentile	13.63	-6.53	12.43	5.71	-2.43	4.12	9.70	9.31	-1.14	8.98										
# of Portfolios	62	78	78	78	77	77	76	75	74	71										
● LACERS Master Trust	18.08	(28)	-3.89	(60)	17.57	(15)	7.38	(72)	0.49	(35)	5.85	(53)	19.03	(23)	14.47	(10)	0.08	(68)	13.58	(49)
▲ Policy Index	20.88	(9)	-5.04	(71)	17.41	(16)	8.35	(35)	-0.39	(68)	5.58	(61)	17.06	(35)	14.23	(18)	1.17	(32)	13.11	(55)



TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE

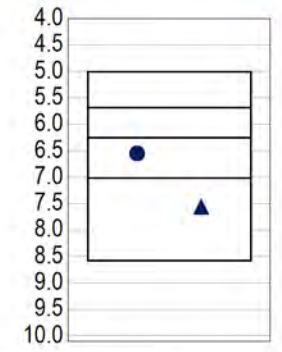
LACERS Master Trust vs. InvMetrics Public DB \$1-50B Gross 3 Years

Annualized Return (%)	Annualized Standard Deviation	Annualized Alpha (%)	Sharpe Ratio	Sortino Ratio Risk Free	Tracking Error
-----------------------	-------------------------------	----------------------	--------------	-------------------------	----------------



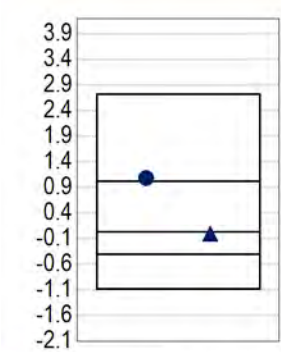
● LACERS Master Trust	Value	10.09
	Rank	15
▲ Policy Index	Value	10.46
	Rank	8

Universe	
5th %tile	10.99
25th %tile	9.89
Median	9.07
75th %tile	8.56
95th %tile	5.69



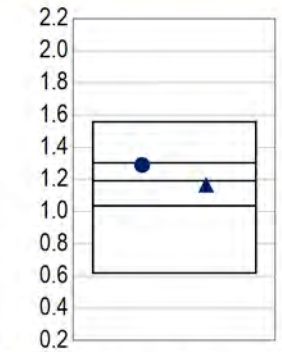
● LACERS Master Trust	Value	6.55
	Rank	60
▲ Policy Index	Value	7.56
	Rank	88

Universe	
5th %tile	5.00
25th %tile	5.67
Median	6.24
75th %tile	7.00
95th %tile	8.57



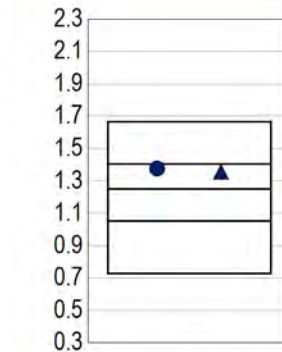
● LACERS Master Trust	Value	1.09
	Rank	22
▲ Policy Index	Value	0.00
	Rank	53

Universe	
5th %tile	2.72
25th %tile	1.03
Median	0.04
75th %tile	-0.39
95th %tile	-1.07



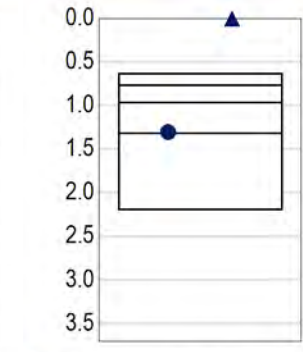
● LACERS Master Trust	Value	1.29
	Rank	28
▲ Policy Index	Value	1.17
	Rank	54

Universe	
5th %tile	1.56
25th %tile	1.31
Median	1.19
75th %tile	1.04
95th %tile	0.62



● LACERS Master Trust	Value	1.38
	Rank	33
▲ Policy Index	Value	1.36
	Rank	37

Universe	
5th %tile	1.67
25th %tile	1.41
Median	1.26
75th %tile	1.06
95th %tile	0.73



● LACERS Master Trust	Value	1.30
	Rank	74
▲ Policy Index	Value	0.00
	Rank	1

Universe	
5th %tile	0.63
25th %tile	0.75
Median	0.95
75th %tile	1.31
95th %tile	2.18

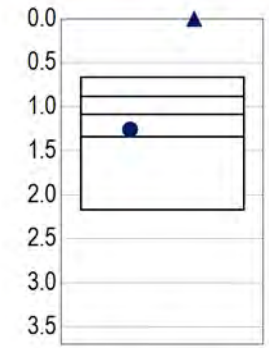
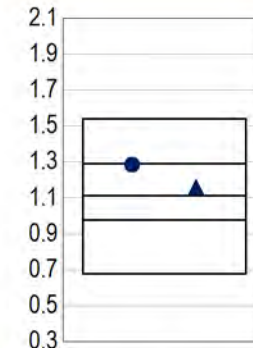
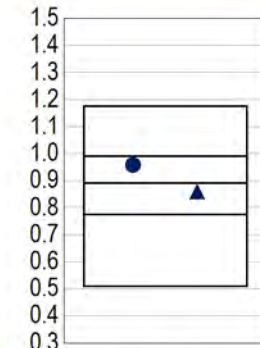
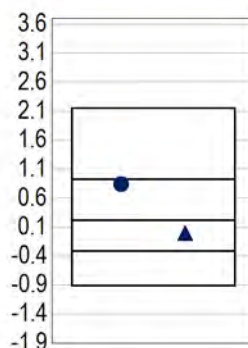
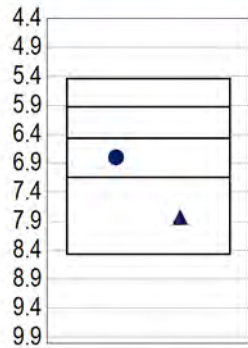
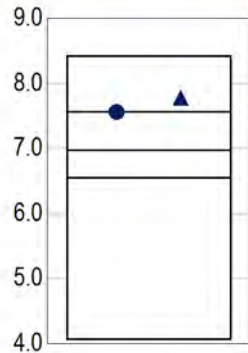
Sortino Ratio RF = Sortino Ratio Risk Free. The risk free rate is the Citi 91 Day T-Bill Index.



TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE

LACERS Master Trust vs. InvMetrics Public DB \$1-50B Gross 5 Years

Annualized Return (%)	Annualized Standard Deviation	Annualized Alpha (%)	Sharpe Ratio	Sortino Ratio Risk Free	Tracking Error
-----------------------	-------------------------------	----------------------	--------------	-------------------------	----------------



● LACERS Master Trust
Value 7.56
Rank 27
▲ Policy Index
Value 7.78
Rank 19

● LACERS Master Trust
Value 6.80
Rank 63
▲ Policy Index
Value 7.83
Rank 89

● LACERS Master Trust
Value 0.84
Rank 29
▲ Policy Index
Value 0.00
Rank 59

● LACERS Master Trust
Value 0.96
Rank 33
▲ Policy Index
Value 0.86
Rank 61

● LACERS Master Trust
Value 1.29
Rank 29
▲ Policy Index
Value 1.16
Rank 45

● LACERS Master Trust
Value 1.26
Rank 72
▲ Policy Index
Value 0.00
Rank 1

Universe
5th %tile 8.42
25th %tile 7.57
Median 6.98
75th %tile 6.56
95th %tile 4.08

Universe
5th %tile 5.44
25th %tile 5.91
Median 6.46
75th %tile 7.13
95th %tile 8.46

Universe
5th %tile 2.15
25th %tile 0.93
Median 0.23
75th %tile -0.30
95th %tile -0.90

Universe
5th %tile 1.17
25th %tile 0.99
Median 0.89
75th %tile 0.78
95th %tile 0.51

Universe
5th %tile 1.54
25th %tile 1.29
Median 1.12
75th %tile 0.98
95th %tile 0.68

Universe
5th %tile 0.66
25th %tile 0.88
Median 1.08
75th %tile 1.33
95th %tile 2.17

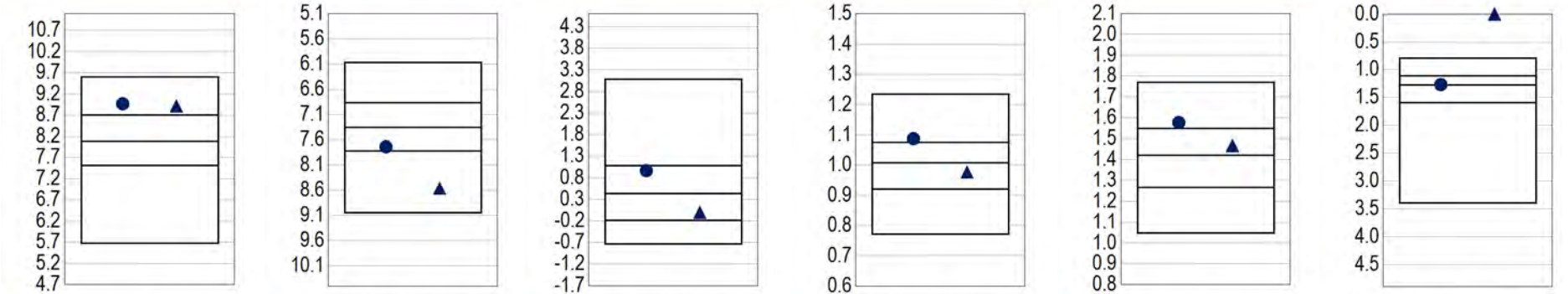
Sortino Ratio RF = Sortino Ratio Risk Free. The risk free rate is the Citi 91 Day T-Bill Index.



TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE

LACERS Master Trust vs. InvMetrics Public DB \$1-50B Gross 10 Years

Annualized Return (%)	Annualized Standard Deviation	Annualized Alpha (%)	Sharpe Ratio	Sortino Ratio Risk Free	Tracking Error
-----------------------	-------------------------------	----------------------	--------------	-------------------------	----------------



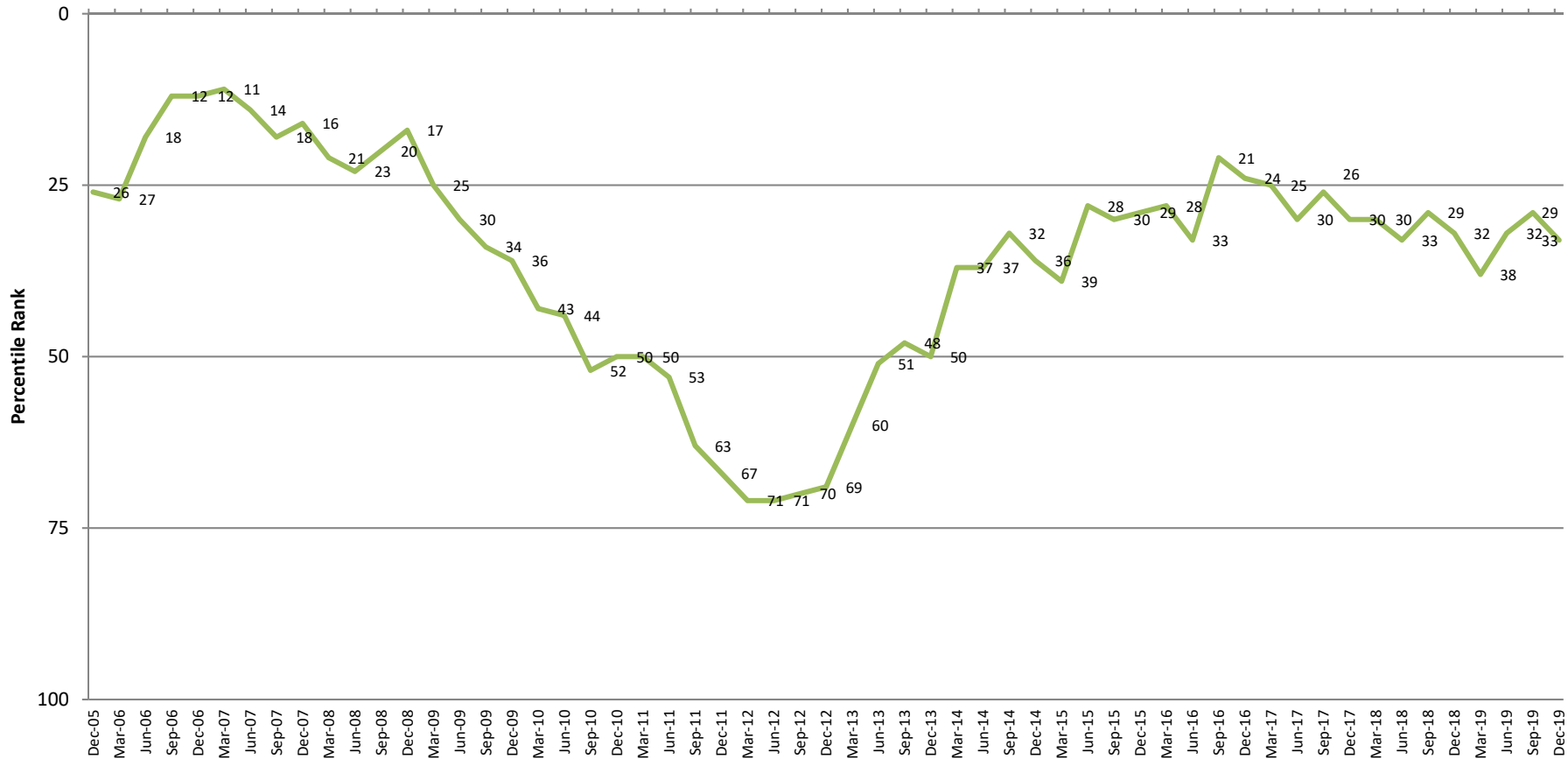
● LACERS Master Trust		▲ Policy Index		Universe	
Value	8.97	Value	8.92	5th %tile	9.60
Rank	19	Rank	20	25th %tile	8.71
				Median	8.10
				75th %tile	7.53
				95th %tile	5.69
● LACERS Master Trust		▲ Policy Index		Universe	
Value	7.74	Value	8.56	5th %tile	6.06
Rank	74	Rank	81	25th %tile	6.85
				Median	7.34
				75th %tile	7.81
				95th %tile	9.03
● LACERS Master Trust		▲ Policy Index		Universe	
Value	0.96	Value	0.00	5th %tile	3.09
Rank	33	Rank	70	25th %tile	1.09
				Median	0.45
				75th %tile	-0.17
				95th %tile	-0.73
● LACERS Master Trust		▲ Policy Index		Universe	
Value	1.09	Value	0.98	5th %tile	1.23
Rank	24	Rank	61	25th %tile	1.08
				Median	1.01
				75th %tile	0.92
				95th %tile	0.77
● LACERS Master Trust		▲ Policy Index		Universe	
Value	1.58	Value	1.47	5th %tile	1.77
Rank	21	Rank	42	25th %tile	1.55
				Median	1.42
				75th %tile	1.27
				95th %tile	1.05
● LACERS Master Trust		▲ Policy Index		Universe	
Value	1.27	Value	0.00	5th %tile	0.80
Rank	50	Rank	1	25th %tile	1.10
				Median	1.27
				75th %tile	1.59
				95th %tile	3.38

Sortino Ratio RF = Sortino Ratio Risk Free. The risk free rate is the Citi 91 Day T-Bill Index.



HISTORICAL RISK ADJUSTED RETURN UNIVERSE COMPARISON

5 Yr Sharpe Ratio Percentile Rank
LACERS Master Trust vs InvMetrics Public Funds \$1B-\$50B Gross of Fees

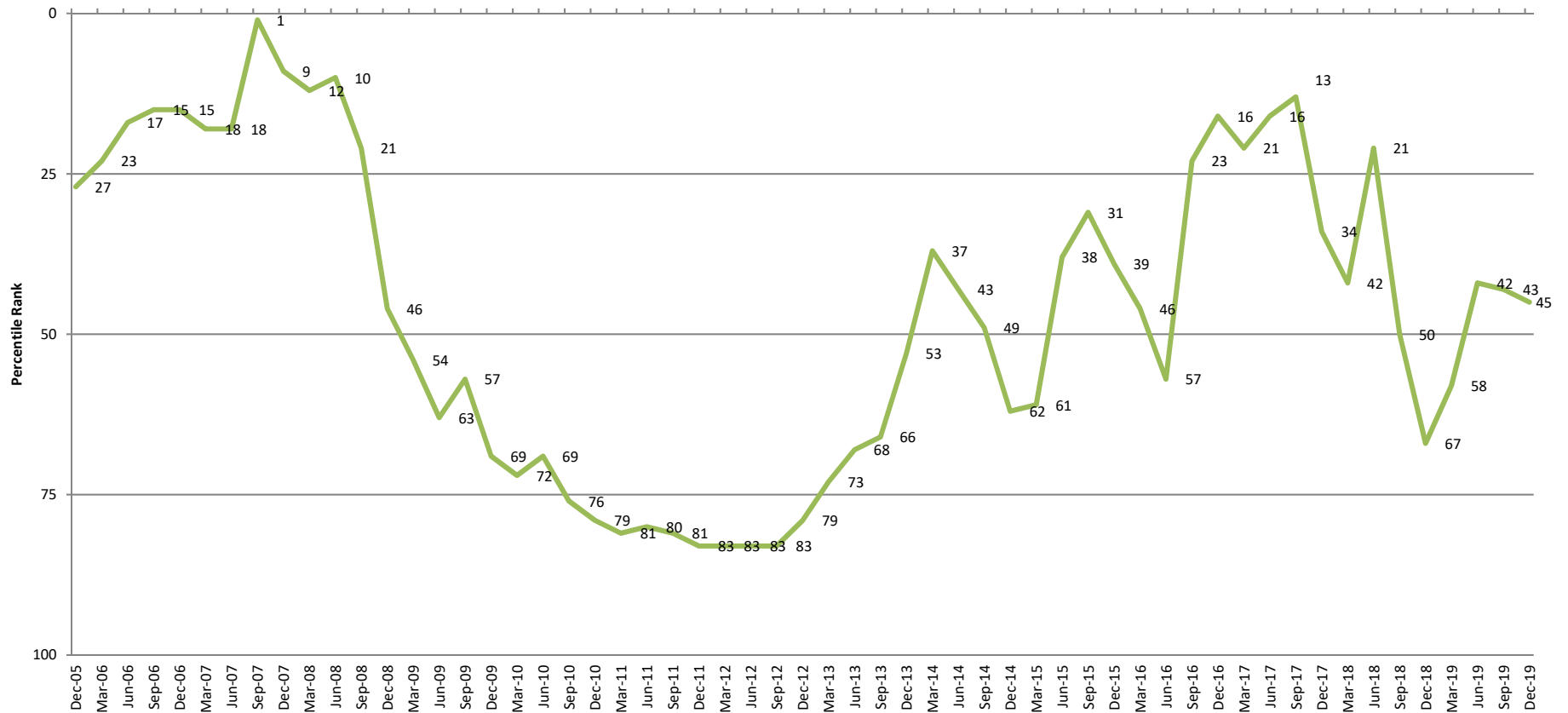


- Total Plan ranks in the 33rd percentile versus other large public plans on a Sharpe Ratio basis.
 - Overweight to non-U.S. equities with contributed positively to Sharpe Ratio rank.
 - Use of passive investment strategies within U.S. Equity has contributed to the overall Sharpe Ratio rank (higher than median).
 - Core Fixed Income contributed negatively to Sharpe Ratio rank.



HISTORICAL RISK ADJUSTED RETURN UNIVERSE COMPARISON

5 Yr Sharpe Ratio Percentile Rank
LACERS Master Trust vs InvestorForce Public Funds \$5B-\$50B Gross of Fees



- Total Plan ranks in the 45th percentile versus other large public plans on a Sharpe Ratio basis.
 - Overweight to non-U.S. equities with contributed positively to Sharpe Ratio rank.
 - Use of passive investment strategies within U.S. Equity has contributed to the overall Sharpe Ratio rank (higher than median).
 - Core Fixed Income contributed negatively to Sharpe Ratio rank.



U.S. EQUITY

NEPC, LLC

Los Angeles City Employees' Retirement System

U.S. EQUITY (GROSS)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
U.S. Equity	4,671,501,921	100.00	9.01	10.02	30.73	14.20	11.20	13.41	10.69	Oct-94
U.S. Equity Blend			<u>9.10</u>	<u>10.37</u>	<u>31.02</u>	<u>14.57</u>	<u>11.24</u>	<u>13.42</u>	<u>9.65</u>	Oct-94
Over/Under			-0.09	-0.35	-0.29	-0.37	-0.04	-0.01	1.04	
Rhumblin Advisors Russell 2000 ¹	281,400,483	6.02	9.90	7.29	25.49	8.63			7.63	Apr-15
Russell 2000			<u>9.94</u>	<u>7.30</u>	<u>25.52</u>	<u>8.59</u>			<u>7.72</u>	Apr-15
Over/Under			-0.04	-0.01	-0.03	0.04			-0.09	
Rhumblin Advisors Russell 2000 Growth ¹	149,594,680	3.20	11.36	6.74	28.44	12.50	9.28		9.28	Jan-15
Russell 2000 Growth			<u>11.39</u>	<u>6.75</u>	<u>28.48</u>	<u>12.49</u>	<u>9.34</u>		<u>9.34</u>	Jan-15
Over/Under			-0.03	-0.01	-0.04	0.01	-0.06		-0.06	
Rhumblin Advisors Russell 2000 Value ¹	229,976,111	4.92	8.45	7.57	22.03	4.71			13.19	Mar-16
Russell 2000 Value			<u>8.49</u>	<u>7.87</u>	<u>22.39</u>	<u>4.77</u>			<u>13.29</u>	Mar-16
Over/Under			-0.04	-0.30	-0.36	-0.06			-0.10	
EAM Investors	142,393,066	3.05	10.52	4.95	33.28	17.83			14.15	Sep-15
Russell 2000 Growth			<u>11.39</u>	<u>6.75</u>	<u>28.48</u>	<u>12.49</u>			<u>12.55</u>	Sep-15
Over/Under			-0.87	-1.80	4.80	5.34			1.60	
Principal Global Investors	211,245,061	4.52	6.43	9.84	44.47	19.96	14.59		15.16	Aug-14
Russell MidCap			<u>7.06</u>	<u>7.58</u>	<u>30.54</u>	<u>12.05</u>	<u>9.33</u>		<u>10.01</u>	Aug-14
Over/Under			-0.63	2.26	13.93	7.91	5.26		5.15	
Rhumblin Advisors S&P 500	3,656,886,128	78.28	8.98	10.68	31.14	15.18	11.62	13.58	10.00	Feb-93
S&P 500			<u>9.07</u>	<u>10.92</u>	<u>31.49</u>	<u>15.27</u>	<u>11.70</u>	<u>13.56</u>	<u>9.84</u>	Feb-93
Over/Under			-0.09	-0.24	-0.35	-0.09	-0.08	0.02	0.16	
Rhumblin Advisors Russell 1000 Growth Escrow Account	78	0.00								
	6,315	0.00								

1- Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.

- U.S. Equity Blend = Russell 3000 from 1/1/2000 to present; 33.75% S&P 500/ 35% Russell 1000 Value/ 12.50% Russell 1000 Growth/ 12.50% Russell 2000 Value/ 6.25% Russell 2000 Growth prior to

eA = eVestment Alliance



Los Angeles City Employees' Retirement System

U.S. EQUITY (NET)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
U.S. Equity	4,671,501,921	100.00	9.00	34	9.99	37	30.65	26	14.13	40	11.11	29	13.25	33		Oct-94
U.S. Equity Blend			<u>9.10</u>	23	<u>10.37</u>	12	<u>31.02</u>	20	<u>14.57</u>	21	<u>11.24</u>	19	<u>13.42</u>	24		Oct-94
Over/Under			-0.10		-0.38		-0.37		-0.44		-0.13		-0.17			
InvMetrics Public DB > \$1 Billion US Equity Net Median			8.78		9.37		29.90		13.78		10.46		12.81			Oct-94
Rhumblin Advisors Russell 2000 ¹	281,400,483	6.02	9.90	25	7.29	41	25.48	45	8.62	46					7.63	Apr-15
Russell 2000			<u>9.94</u>	25	<u>7.30</u>	41	<u>25.52</u>	45	<u>8.59</u>	46					<u>7.72</u>	Apr-15
Over/Under			-0.04		-0.01		-0.04		0.03						-0.09	
eV US Small Cap Equity Net Median			8.26		6.50		24.68		7.78						7.78	Apr-15
Rhumblin Advisors Russell 2000 Growth ¹	149,594,680	3.20	11.35	26	6.74	25	28.43	49	12.49	73	9.27	75			9.27	Jan-15
Russell 2000 Growth			<u>11.39</u>	26	<u>6.75</u>	25	<u>28.48</u>	49	<u>12.49</u>	73	<u>9.34</u>	75			<u>9.34</u>	Jan-15
Over/Under			-0.04		-0.01		-0.05		0.00		-0.07				-0.07	
eV US Small Cap Growth Equity Net Median			9.26		4.51		28.09		15.46		10.87				10.87	Jan-15
Rhumblin Advisors Russell 2000 Value ¹	229,976,111	4.92	8.45	33	7.57	49	22.02	64	4.70	48					13.18	Mar-16
Russell 2000 Value			<u>8.49</u>	33	<u>7.87</u>	41	<u>22.39</u>	60	<u>4.77</u>	48					<u>13.29</u>	Mar-16
Over/Under			-0.04		-0.30		-0.37		-0.07						-0.11	
eV US Small Cap Value Equity Net Median			7.80		7.48		23.79		4.63						11.96	Mar-16
EAM Investors	142,393,066	3.05	10.33	19	4.60	74	32.39	15	16.99	14					13.35	Sep-15
Russell 2000 Growth			<u>11.39</u>	12	<u>6.75</u>	47	<u>28.48</u>	26	<u>12.49</u>	26					<u>12.55</u>	Sep-15
Over/Under			-1.06		-2.15		3.91		4.50						0.80	
eV US Small Cap Equity Net Median			8.26		6.50		24.68		7.78						11.56	Sep-15

1- Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.

- U.S. Equity Blend = Russell 3000 from 1/1/2000 to present; 33.75% S&P 500/ 35% Russell 1000 Value/ 12.50% Russell 1000 Growth/ 12.50% Russell 2000 Value/ 6.25% Russell 2000 Growth prior to

eA = eVestment Alliance



Los Angeles City Employees' Retirement System

U.S. EQUITY (NET)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
Principal Global Investors ¹	211,245,061	4.52	6.33	67	9.65	18	43.96	2	19.51	11	14.16	5			14.75	Aug-14
<i>Russell MidCap</i>			<u>7.06</u>	51	<u>7.58</u>	45	<u>30.54</u>	44	<u>12.05</u>	48	<u>9.33</u>	49			<u>10.01</u>	Aug-14
Over/Under			-0.73		2.07		13.42		7.46		4.83				4.74	
<i>eV US Mid Cap Equity Net Median</i>			7.17		7.22		29.61		11.66		9.23				9.63	Aug-14
Rhumblin Advisors S&P 500	3,656,886,128	78.28	8.98	37	10.68	27	31.14	37	15.17	36	11.61	29	13.57	25		Feb-93
<i>S&P 500</i>			<u>9.07</u>	37	<u>10.92</u>	23	<u>31.49</u>	35	<u>15.27</u>	36	<u>11.70</u>	28	<u>13.56</u>	25		Feb-93
Over/Under			-0.09		-0.24		-0.35		-0.10		-0.09		0.01			
<i>eV US Large Cap Equity Net Median</i>			8.27		9.61		28.89		13.30		10.10		12.57			Feb-93
Rhumblin Advisors Russell 1000 Growth	78	0.00														
Escrow Account	6,315	0.00														

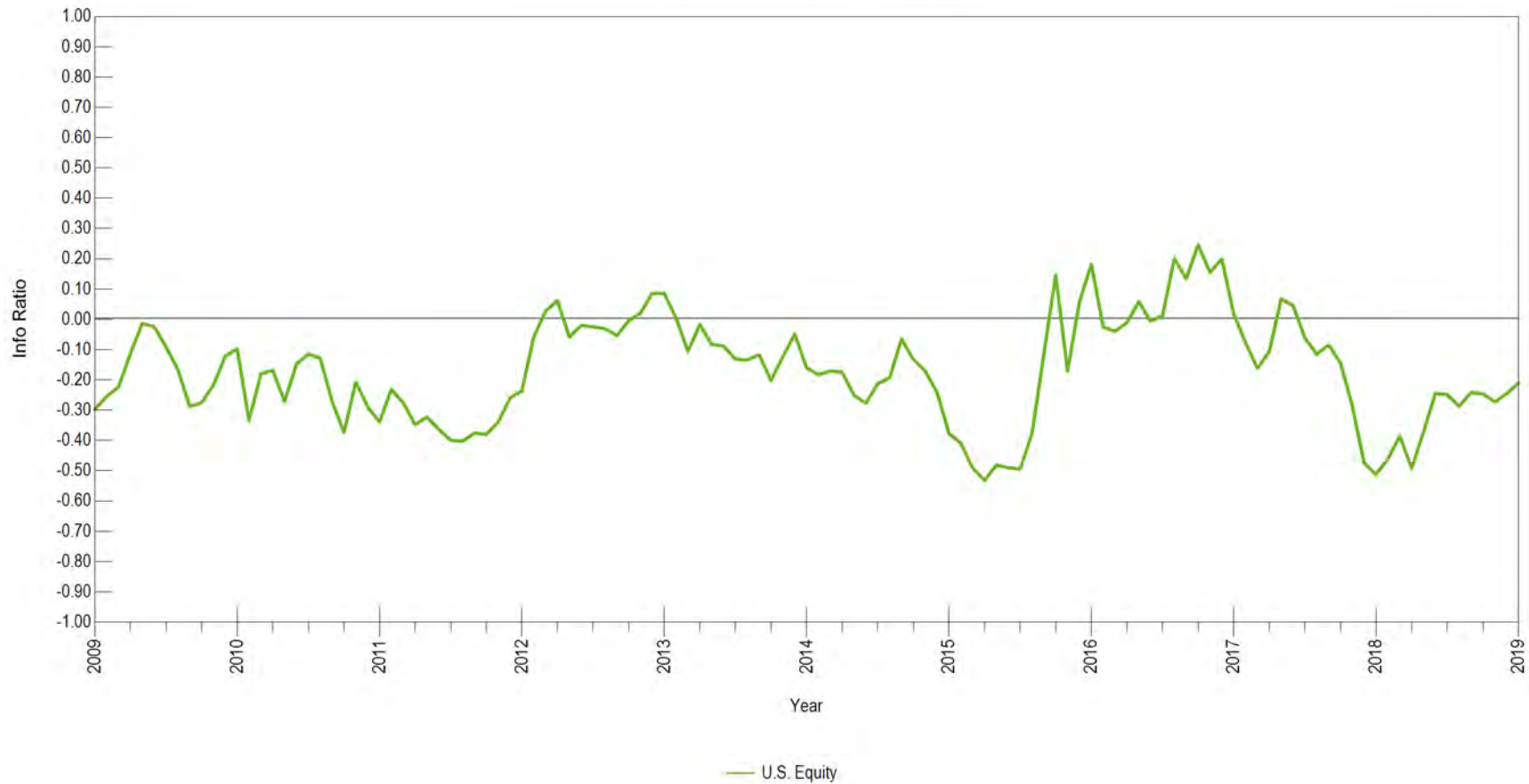
1- Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.

eA = eVestment Alliance



U.S. EQUITY ROLLING 5 YEAR INFORMATION RATIO

Rolling 5 Year Information Ratio



*Returns are net of fees.



MANAGER REPORT CARD

U.S. Equity Managers	Inception Date	Mandate	Current Quarter (Net)		One Year (Net)		Three Years (Net)		Five Years (Net)		Since Inception (Net)	Annual Mgt Fee Paid \$ (000)	Comments
			Index	Universe	Index	Universe	Index	Universe	Index	Universe			
Principal Global Investors	Jul-14	Mid Cap	* *	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓	616.9	Performance compliant with LACERS' Manager Monitoring Policy	
EAM Investors	Sep-15	Small Cap Growth	* ✓	✓ ✓	✓ ✓	✓ ✓	N/A N/A	N/A N/A	✓	✓	913.9	Performance compliant with LACERS' Manager Monitoring Policy	
Rhumblin (Passive)	Feb-93	S&P 500	* ✓	* ✓	* ✓	* ✓	* ✓	* ✓	✓ ✓	✓ ✓	178.2	Performance compliant with LACERS' Manager Monitoring Policy	
Rhumblin (Passive)	Jun-15	R2000	* ✓	* ✓	✓ ✓	✓ ✓	N/A N/A	N/A N/A	*	*	14.6	Performance compliant with LACERS' Manager Monitoring Policy	
Rhumblin (Passive)	Jun-15	R2000 Growth	* ✓	* ✓	= *	* *	* *	* *	*	*	7.7	Performance compliant with LACERS' Manager Monitoring Policy	
Rhumblin (Passive)	Feb-16	R2000 Value	* ✓	* *	* ✓	* ✓	N/A N/A	N/A N/A	*	*	5.8	Performance compliant with LACERS' Manager Monitoring Policy	

Note: Managers are placed on Watch List for concerns with organization, process and performance. Managers are normally on the Watch List for 12 months though may be longer if manager issues remain but not severe enough to warrant termination recommendation.

- Annual Management Fee Paid as of fiscal year ending June 30, 2019.
- * Where net of fees performance is not available gross of fee returns are evaluated.

Legend	
✓	Outperformed
*	Underperformed
=	Equal to
✓✓	Gross Return



NON-U.S. EQUITY

NEPC, LLC

Los Angeles City Employees' Retirement System

NON-U.S. EQUITY (GROSS)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Non-U.S. Equity	5,770,746,991	100.00	9.55	7.39	22.55	11.08	6.80	6.25	5.42	Nov-94
MSCI ACWI ex USA			<u>8.92</u>	<u>6.96</u>	<u>21.51</u>	<u>9.87</u>	<u>5.51</u>	<u>4.97</u>	<u>5.23</u>	Nov-94
Over/Under			0.63	0.43	1.04	1.21	1.29	1.28	0.19	
Developed ex-U.S.	4,363,730,372	75.62	8.91	7.69	24.12	10.90	6.78		8.80	Jun-12
MSCI EAFE			<u>8.17</u>	<u>7.01</u>	<u>22.01</u>	<u>9.56</u>	<u>5.67</u>		<u>7.77</u>	Jun-12
Over/Under			0.74	0.68	2.11	1.34	1.11		1.03	
AQR Capital (On Watch)	298,055,931	5.16	12.87	12.20	23.00	10.14	8.67		5.92	Feb-14
MSCI EAFE Small Cap			<u>11.52</u>	<u>11.03</u>	<u>24.96</u>	<u>10.92</u>	<u>8.85</u>		<u>5.91</u>	Feb-14
Over/Under			1.35	1.17	-1.96	-0.78	-0.18		0.01	
Barrow Hanley (On Watch)	577,704,244	10.01	10.31	10.59	26.76	8.88	4.70		3.95	Nov-13
MSCI EAFE Value			<u>7.82</u>	<u>5.94</u>	<u>16.09</u>	<u>6.31</u>	<u>3.54</u>		<u>2.19</u>	Nov-13
Over/Under			2.49	4.65	10.67	2.57	1.16		1.76	
Lazard Asset Management ¹	636,252,465	11.03	7.24	4.90	21.17	11.65	6.07		5.42	Nov-13
MSCI EAFE			<u>8.17</u>	<u>7.01</u>	<u>22.01</u>	<u>9.56</u>	<u>5.67</u>		<u>4.03</u>	Nov-13
Over/Under			-0.93	-2.11	-0.84	2.09	0.40		1.39	
MFS Institutional Advisors	675,065,175	11.70	9.32	7.89	28.22	15.90	10.32		7.91	Oct-13
MSCI World ex USA Growth NR USD			<u>8.09</u>	<u>7.60</u>	<u>27.92</u>	<u>12.34</u>	<u>7.18</u>		<u>5.62</u>	Oct-13
Over/Under			1.23	0.29	0.30	3.56	3.14		2.29	
Oberweis Asset Mgmt ¹	253,069,813	4.39	8.61	4.34	26.60	11.59	9.23		7.45	Jan-14
MSCI EAFE Small Cap			<u>11.52</u>	<u>11.03</u>	<u>24.96</u>	<u>10.92</u>	<u>8.85</u>		<u>6.79</u>	Jan-14
Over/Under			-2.91	-6.69	1.64	0.67	0.38		0.66	
SSgA World ex US IMI	1,923,582,745	33.33	8.36	7.56	23.39	9.95	6.24	6.06	5.89	Aug-93
MSCI World ex USA IMI NR USD ²			<u>8.36</u>	<u>7.45</u>	<u>22.91</u>	<u>9.49</u>	<u>5.79</u>	<u>5.66</u>	<u>5.62</u>	Aug-93
Over/Under			0.00	0.11	0.48	0.46	0.45	0.40	0.27	

1 Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.

2 Since inception index return sourced from SSgA.

eA = eVestment



Los Angeles City Employees' Retirement System

NON-U.S. EQUITY (GROSS)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Emerging Markets	1,407,016,618	24.38	11.60	6.44	17.93	11.49	5.68		4.71	Jun-12
<i>MSCI Emerging Markets</i>			<u>11.84</u>	<u>7.09</u>	<u>18.44</u>	<u>11.57</u>	<u>5.61</u>		<u>4.82</u>	<i>Jun-12</i>
Over/Under			-0.24	-0.65	-0.51	-0.08	0.07		-0.11	
Axiom Emerging Markets (On Watch)	479,513,849	8.31	12.42	10.14	25.55	13.80	7.25		5.95	Mar-14
<i>MSCI Emerging Markets Growth NR USD</i>			<u>13.68</u>	<u>11.37</u>	<u>25.10</u>	<u>14.50</u>	<u>7.45</u>		<u>6.39</u>	<i>Mar-14</i>
Over/Under			-1.26	-1.23	0.45	-0.70	-0.20		-0.44	
DFA Emerging Markets ¹	456,711,564	7.91	10.63	3.16	10.70	9.07	4.53		1.58	Aug-14
<i>MSCI Emerging Markets Value NR USD</i>			<u>9.94</u>	<u>2.82</u>	<u>11.96</u>	<u>8.57</u>	<u>3.67</u>		<u>0.95</u>	<i>Aug-14</i>
Over/Under			0.69	0.34	-1.26	0.50	0.86		0.63	
QMA Emerging Markets ¹	470,791,205	8.16	11.71	6.08	18.10	11.49	5.32		4.85	May-14
<i>MSCI Emerging Markets</i>			<u>11.84</u>	<u>7.09</u>	<u>18.44</u>	<u>11.57</u>	<u>5.61</u>		<u>4.54</u>	<i>May-14</i>
Over/Under			-0.13	-1.01	-0.34	-0.08	-0.29		0.31	

1 Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.
eA = eVestment



Los Angeles City Employees' Retirement System

NON-U.S. EQUITY (NET)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
Non-U.S. Equity	5,770,746,991	100.00	9.46	70	7.19	85	22.11	61	10.67	31	6.42	49	5.89	40		Nov-94
MSCI ACWI ex USA			8.92	87	6.96	89	21.51	64	9.87	58	5.51	79	4.97	95		Nov-94
Over/Under			0.54		0.23		0.60		0.80		0.91		0.92			
Developed ex-U.S.	4,363,730,372	75.62	8.83	71	7.53	71	23.73	53	10.55	51	6.45	69			8.50	Jun-12
MSCI EAFE			8.17	95	7.01	91	22.01	83	9.56	84	5.67	84			7.77	Jun-12
Over/Under			0.66		0.52		1.72		0.99		0.78				0.73	
InvMetrics Public DB > \$1 Billion Dev Mkt ex-US Eq Net Median			9.36		8.16		23.91		10.55		6.56				8.65	Jun-12
AQR Capital ¹ (On Watch)	298,055,931	5.16	12.67	32	11.77	18	22.06	69	9.30	63	7.86	63			5.19	Feb-14
MSCI EAFE Small Cap			11.52	61	11.03	25	24.96	39	10.92	47	8.85	42			5.91	Feb-14
Over/Under			1.15		0.74		-2.90		-1.62		-0.99				-0.72	
eV EAFE Small Cap Equity Net Median			12.10		9.81		23.76		10.62		8.38				5.75	Feb-14
Barrow Hanley ¹ (On Watch)	577,704,244	10.01	10.18	30	10.31	12	26.12	10	8.33	36	4.17	72			3.44	Nov-13
MSCI EAFE Value			7.82	75	5.94	87	16.09	86	6.31	71	3.54	83			2.19	Nov-13
Over/Under			2.36		4.37		10.03		2.02		0.63				1.25	
eV EAFE Value Equity Net Median			9.04		7.58		20.15		7.53		5.02				3.48	Nov-13
Lazard Asset Management ¹	636,252,465	11.03	7.11	88	4.63	94	20.56	65	11.03	31	5.51	63			4.87	Nov-13
MSCI EAFE			8.17	69	7.01	63	22.01	51	9.56	50	5.67	59			4.03	Nov-13
Over/Under			-1.06		-2.38		-1.45		1.47		-0.16				0.84	
eV All EAFE Equity Net Median			9.03		7.57		22.07		9.53		6.22				4.71	Nov-13
MFS Institutional Advisors	675,065,175	11.70	9.21	53	7.67	78	27.69	64	15.36	32	9.78	1			7.39	Oct-13
MSCI World ex USA Growth NR USD			8.09	96	7.60	79	27.92	64	12.34	76	7.18	69			5.62	Oct-13
Over/Under			1.12		0.07		-0.23		3.02		2.60				1.77	
eV EAFE All Cap Growth Net Median			9.27		8.48		29.56		14.14		8.32				6.27	Oct-13

1 Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.
eA = eVestment



Los Angeles City Employees' Retirement System

NON-U.S. EQUITY (NET)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
Oberweis Asset Mgmt ¹	253,069,813	4.39	8.41	97	3.98	98	25.64	36	10.66	50	8.31	52			6.56	Jan-14
MSCI EAFE Small Cap			<u>11.52</u>	61	<u>11.03</u>	25	<u>24.96</u>	39	<u>10.92</u>	47	<u>8.85</u>	42			<u>6.79</u>	Jan-14
Over/Under			-3.11		-7.05		0.68		-0.26		-0.54				-0.23	
eV EAFE Small Cap Equity Net Median			12.10		9.81		23.76		10.62		8.38				6.52	Jan-14
SSgA World ex US IMI	1,923,582,745	33.33	8.35	65	7.55	49	23.36	40	9.93	47	6.21	54	6.04	72	5.89	Aug-93
MSCI World ex USA IMI NR USD ²			<u>8.36</u>	65	<u>7.45</u>	49	<u>22.91</u>	45	<u>9.49</u>	52	<u>5.79</u>	62	<u>5.66</u>	80	<u>5.62</u>	Aug-93
Over/Under			-0.01		0.10		0.45		0.44		0.42		0.38		0.27	
eV EAFE Core Equity Net Median			9.06		7.37		22.15		9.56		6.35		7.06		7.27	Aug-93
Emerging Markets	1,407,016,618	24.38	11.46	26	6.16	36	17.31	26	10.91	27	5.11	17			4.08	Jun-12
MSCI Emerging Markets			<u>11.84</u>	10	<u>7.09</u>	15	<u>18.44</u>	18	<u>11.57</u>	17	<u>5.61</u>	12			<u>4.82</u>	Jun-12
Over/Under			-0.38		-0.93		-1.13		-0.66		-0.50				-0.74	
InvMetrics Public DB > \$1 Billion Emg Mkt Eq Net Median			10.33		5.65		16.11		9.55		4.17				3.62	Jun-12
Axiom Emerging Markets (On Watch)	479,513,849	8.31	12.24	27	9.77	16	24.70	21	13.02	27	6.50	32			5.26	Mar-14
MSCI Emerging Markets Growth NR USD			<u>13.68</u>	9	<u>11.37</u>	5	<u>25.10</u>	20	<u>14.50</u>	14	<u>7.45</u>	19			<u>6.39</u>	Mar-14
Over/Under			-1.44		-1.60		-0.40		-1.48		-0.95				-1.13	
eV Emg Mkts Equity Net Median			11.37		7.00		19.28		10.66		5.45				4.71	Mar-14
DFA Emerging Markets ¹	456,711,564	7.91	10.50	67	2.89	89	10.13	95	8.53	82	4.00	80			1.09	Aug-14
MSCI Emerging Markets Value NR USD			<u>9.94</u>	73	<u>2.82</u>	90	<u>11.96</u>	91	<u>8.57</u>	82	<u>3.67</u>	84			<u>0.95</u>	Aug-14
Over/Under			0.56		0.07		-1.83		-0.04		0.33				0.14	
eV Emg Mkts Equity Net Median			11.37		7.00		19.28		10.66		5.45				3.35	Aug-14
QMA Emerging Markets ¹ (On Watch)	470,791,205	8.16	11.61	44	5.88	65	17.66	64	11.05	47	4.87	64			4.41	May-14
MSCI Emerging Markets			<u>11.84</u>	36	<u>7.09</u>	49	<u>18.44</u>	57	<u>11.57</u>	43	<u>5.61</u>	46			<u>4.54</u>	May-14
Over/Under			-0.23		-1.21		-0.78		-0.52		-0.74				-0.13	
eV Emg Mkts Equity Net Median			11.37		7.00		19.28		10.66		5.45				4.72	May-14

1 Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.

2 Since inception index return sourced from SSgA.

eA = eVestment



Los Angeles City Employees' Retirement System

NON-U.S. EQUITY COUNTRY ALLOCATION

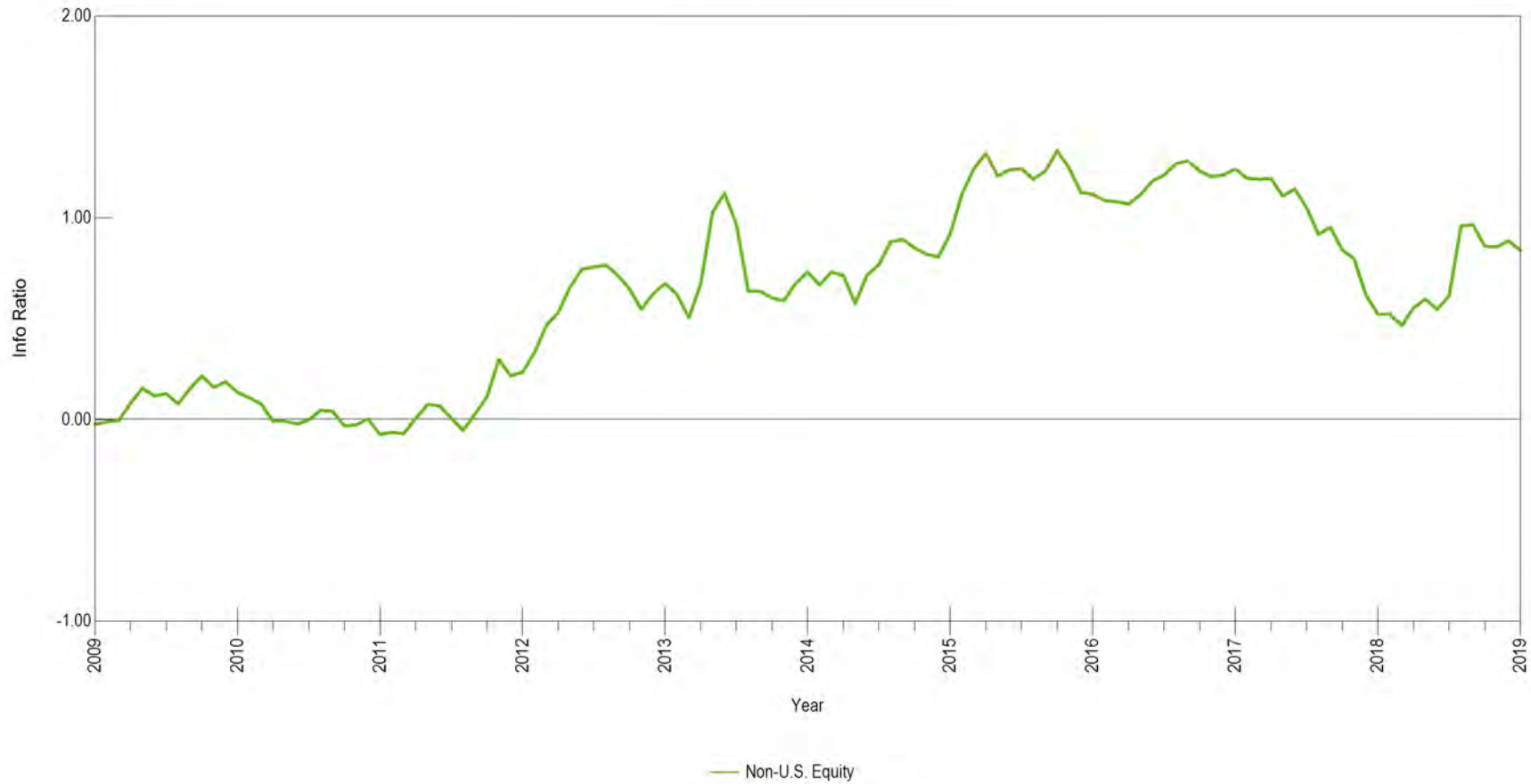
Versus MSCI ACWI ex USA - Quarter Ending December 31, 2019		
	Manager Ending Allocation (USD)	Index Ending Allocation (USD)
Europe		
Austria	0.2%	0.1%
Belgium	0.6%	0.7%
Croatia**	0.0%	0.0%
Czech Republic*	0.0%	0.0%
Denmark	1.3%	1.2%
Estonia**	0.0%	0.0%
Finland	1.1%	0.6%
France	9.5%	7.5%
Germany	5.9%	5.7%
Greece*	0.2%	0.1%
Hungary*	0.1%	0.1%
Ireland	0.5%	0.4%
Italy	1.6%	1.5%
Lithuania**	0.0%	0.0%
Luxembourg	0.0%	0.0%
Netherlands	2.2%	2.6%
Norway	0.8%	0.4%
Poland*	0.2%	0.2%
Portugal	0.1%	0.1%
Romania**	0.0%	0.0%
Russia*	0.9%	1.1%
Serbia**	0.0%	0.0%
Slovenia**	0.0%	0.0%
Spain	1.1%	1.9%
Sweden	1.6%	1.8%
Switzerland	6.0%	6.2%
United Kingdom	10.4%	10.9%
Total-Europe	44.2%	43.1%

Versus MSCI ACWI ex USA - Quarter Ending December 31, 2019		
	Manager Ending Allocation (USD)	Index Ending Allocation (USD)
Americas		
Brazil*	2.1%	2.1%
Canada	5.0%	6.7%
Chile*	0.1%	0.2%
Colombia*	0.3%	0.1%
Mexico*	0.8%	0.6%
Peru*	0.1%	0.1%
United States	2.8%	0.0%
Total-Americas	11.2%	9.8%
AsiaPacific		
Australia	3.1%	4.5%
China*	5.3%	9.3%
Hong Kong	5.3%	2.3%
India*	2.3%	2.4%
Indonesia*	0.4%	0.5%
Japan	15.1%	16.2%
Korea*	3.3%	3.2%
Malaysia*	0.3%	0.5%
New Zealand	0.1%	0.2%
Philippines*	0.3%	0.3%
Singapore	1.4%	0.8%
Taiwan*	3.7%	3.2%
Thailand*	0.6%	0.7%
Total-AsiaPacific	41.3%	44.1%
Other		
Egypt*	0.1%	0.0%
Israel	0.6%	0.4%
Other Countries	0.2%	0.0%
Qatar*	0.0%	0.3%
South Africa*	1.1%	1.3%
Turkey*	0.2%	0.1%
United Arab Emirates*	0.0%	0.2%
Total-Other	2.2%	2.9%
Totals		
Developed	76.2%	72.7%
Emerging*	22.5%	27.3%
Other	0.2%	
Cash	1.0%	



NON-U.S. EQUITY ROLLING 5 YEAR INFORMATION

Rolling 5 Year Information Ratio



*Returns are net of fees



MANAGER REPORT CARD

Non-U.S. Equity Managers	Inception Date	Mandate	Current Quarter (Net)		One Year (Net)		Three Years (Net)		Five Years (Net)		Since Inception (Net)	Annual Mgt Fee Paid \$ (000)	Comments
			Index	Universe	Index	Universe	Index	Universe	Index	Universe			
Axiom International	Mar-14	Emerging Markets	x	✓	x	✓	x	✓	x	✓	x	2,905.3	On Watch since April 2019 due to performance
Q.M.A.	Apr-14	Emerging Markets	x	✓	x	x	x	✓	x	x	x	1,632.8	On Watch since July 2019 due to performance
DFA Emerging Markets	Jul-14	Emerging Markets	✓	x	x	x	x	x	✓	x	✓	2,208.6	Performance compliant with LACERS' Manager Monitoring Policy
AQR	Feb-14	Non-U.S. Developed	✓	✓	x	x	x	x	x	x	x	2,522.4	On Watch since May 2019 due to performance.
Oberweis Asset Mgt.	Jan-14	Non-U.S. Developed	x	x	✓	✓	x	✓	x	x	x	1,434.9	Performance compliant with LACERS' Manager Monitoring Policy
Barrow, Hanley, Mewhinney & Strauss	Nov-13	Non-U.S. Developed	✓	✓	✓	✓	✓	✓	✓	x	✓	2,574.2	On Watch since April 2019 due to performance
Lazard Asset Mgt.	Nov-13	Non-U.S. Developed	x	x	x	x	✓	✓	x	x	✓	3,003.5	Performance compliant with LACERS' Manager Monitoring Policy
MFS Institutional Advisors	Oct-13	Non-U.S. Developed	✓	x	x	x	✓	✓	✓	✓	✓	2,662.1	Performance compliant with LACERS' Manager Monitoring Policy
SsgA (Passive)	Aug-93	Non-U.S. Developed	x	x	✓	✓	✓	✓	✓	x	✓✓	391.2	Performance compliant with LACERS' Manager Monitoring Policy

Note: Managers are placed on Watch List for concerns with organization, process and performance. Managers are normally on the Watch List for 12 months though may be longer if manager issues remain but not severe enough to warrant termination recommendation.

- Annual Management Fee Paid as of fiscal year ending June 30, 2019.
- * Where net of fees performance is not available gross of fee returns are evaluated.

Legend	
✓	Outperformed
x	Underperformed
=	Equal to
✓✓	Gross Return



CORE FIXED INCOME

NEPC, LLC

Los Angeles City Employees' Retirement System

CORE FIXED INCOME (GROSS)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Core Fixed Income	3,211,478,959	100.00	0.29	2.46	9.09	4.22	3.36		3.49	Jul-12
<i>Core Fixed Income Blend</i>			<i>0.18</i>	<i>2.45</i>	<i>8.72</i>	<i>4.03</i>	<i>3.05</i>		<i>2.90</i>	<i>Jul-12</i>
Over/Under			0.11	0.01	0.37	0.19	0.31		0.59	
Baird Advisors	345,116,832	10.75	0.51	1.96	7.52	3.69	3.15	4.07	4.36	Mar-05
<i>BBgBarc US Govt/Credit Int TR</i>			<i>0.37</i>	<i>1.75</i>	<i>6.80</i>	<i>3.24</i>	<i>2.57</i>	<i>3.05</i>	<i>3.71</i>	<i>Mar-05</i>
Over/Under			0.14	0.21	0.72	0.45	0.58	1.02	0.65	
LM Capital (On Watch)	328,203,357	10.22	0.50	2.54	9.41	4.07	3.31	4.11	4.65	Mar-05
<i>Core Fixed Income Blend</i>			<i>0.18</i>	<i>2.45</i>	<i>8.72</i>	<i>4.03</i>	<i>3.05</i>	<i>3.91</i>	<i>4.39</i>	<i>Mar-05</i>
Over/Under			0.32	0.09	0.69	0.04	0.26	0.20	0.26	
Loomis Sayles	811,671,270	25.27	0.21	2.56	9.70	4.75	3.89	4.91	9.03	Jul-80
<i>BC US Agg LACERS custom</i>			<i>0.18</i>	<i>2.45</i>	<i>8.72</i>	<i>4.03</i>	<i>3.05</i>	<i>3.75</i>	<i>7.55</i>	<i>Jul-80</i>
Over/Under			0.03	0.11	0.98	0.72	0.84	1.16	1.48	
Neuberger Berman (On Watch)	801,758,828	24.97	0.35	2.48	9.33	4.14	3.27	4.68	5.72	Sep-01
<i>Core Fixed Income Blend</i>			<i>0.18</i>	<i>2.45</i>	<i>8.72</i>	<i>4.03</i>	<i>3.05</i>	<i>3.91</i>	<i>4.65</i>	<i>Sep-01</i>
Over/Under			0.17	0.03	0.61	0.11	0.22	0.77	1.07	
SSgA U.S. Aggregate Bond ¹	924,728,673	28.79	0.17	2.46	8.71	4.04	3.07		3.25	Jul-14
<i>BBgBarc US Aggregate TR</i>			<i>0.18</i>	<i>2.45</i>	<i>8.72</i>	<i>4.03</i>	<i>3.05</i>		<i>3.23</i>	<i>Jul-14</i>
Over/Under			-0.01	0.01	-0.01	0.01	0.02		0.02	

1 Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.

BBgBarc = Bloomberg Barclays



Los Angeles City Employees' Retirement System

CORE FIXED INCOME (NET)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
Core Fixed Income	3,211,478,959	100.00	0.27	62	2.41	61	8.98	39	4.12	71	3.26	64			3.37	Jul-12
Core Fixed Income Blend			<u>0.18</u>	72	<u>2.45</u>	54	<u>8.72</u>	58	<u>4.03</u>	79	<u>3.05</u>	73			<u>2.90</u>	Jul-12
Over/Under			0.09		-0.04		0.26		0.09		0.21				0.47	
InvMetrics Public DB > \$1 Billion US Fixed Income Net Median			0.65		2.49		8.81		4.31		3.49				3.36	Jul-12
Baird Advisors	345,116,832	10.75	0.49	28	1.91	25	7.40	16	3.56	16	3.02	14	3.94	10	4.23	Mar-05
BBgBarc US Govt/Credit Int TR			<u>0.37</u>	51	<u>1.75</u>	51	<u>6.80</u>	45	<u>3.24</u>	42	<u>2.57</u>	47	<u>3.05</u>	65	<u>3.71</u>	Mar-05
Over/Under			0.12		0.16		0.60		0.32		0.45		0.89		0.52	
eV US Interm Duration Fixed Inc Net Median			0.37		1.75		6.74		3.19		2.56		3.16		3.88	Mar-05
LM Capital (On Watch)	328,203,357	10.22	0.48	10	2.49	46	9.30	36	3.96	69	3.20	46	3.98	51	4.51	Mar-05
Core Fixed Income Blend			<u>0.18</u>	43	<u>2.45</u>	53	<u>8.72</u>	69	<u>4.03</u>	57	<u>3.05</u>	66	<u>3.91</u>	60	<u>4.39</u>	Mar-05
Over/Under			0.30		0.04		0.58		-0.07		0.15		0.07		0.12	
eV US Core Fixed Inc Net Median			0.14		2.46		9.07		4.09		3.15		3.98		4.43	Mar-05
Loomis Sayles	811,671,270	25.27	0.18	44	2.50	42	9.56	19	4.61	10	3.76	10	4.78	11		Jul-80
BC US Agg LACERS custom			<u>0.18</u>	43	<u>2.45</u>	53	<u>8.72</u>	69	<u>4.03</u>	57	<u>3.05</u>	66	<u>3.75</u>	72		Jul-80
Over/Under			0.00		0.05		0.84		0.58		0.71		1.03			
eV US Core Fixed Inc Net Median			0.14		2.46		9.07		4.09		3.15		3.98			Jul-80
Neuberger Berman (On Watch)	801,758,828	24.97	0.32	16	2.42	58	9.19	43	3.99	64	3.12	55	4.51	17	5.57	Sep-01
Core Fixed Income Blend			<u>0.18</u>	43	<u>2.45</u>	53	<u>8.72</u>	69	<u>4.03</u>	57	<u>3.05</u>	66	<u>3.91</u>	60	<u>4.65</u>	Sep-01
Over/Under			0.14		-0.03		0.47		-0.04		0.07		0.60		0.92	
eV US Core Fixed Inc Net Median			0.14		2.46		9.07		4.09		3.15		3.98		4.59	Sep-01
SSgA U.S. Aggregate Bond ¹	924,728,673	28.79	0.17	45	2.45	54	8.67	71	4.01	60	3.03	68			3.21	Jul-14
BBgBarc US Aggregate TR			<u>0.18</u>	43	<u>2.45</u>	53	<u>8.72</u>	69	<u>4.03</u>	57	<u>3.05</u>	66			<u>3.23</u>	Jul-14
Over/Under			-0.01		0.00		-0.05		-0.02		-0.02				-0.02	
eV US Core Fixed Inc Net Median			0.14		2.46		9.07		4.09		3.15				3.29	Jul-14

1 Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.

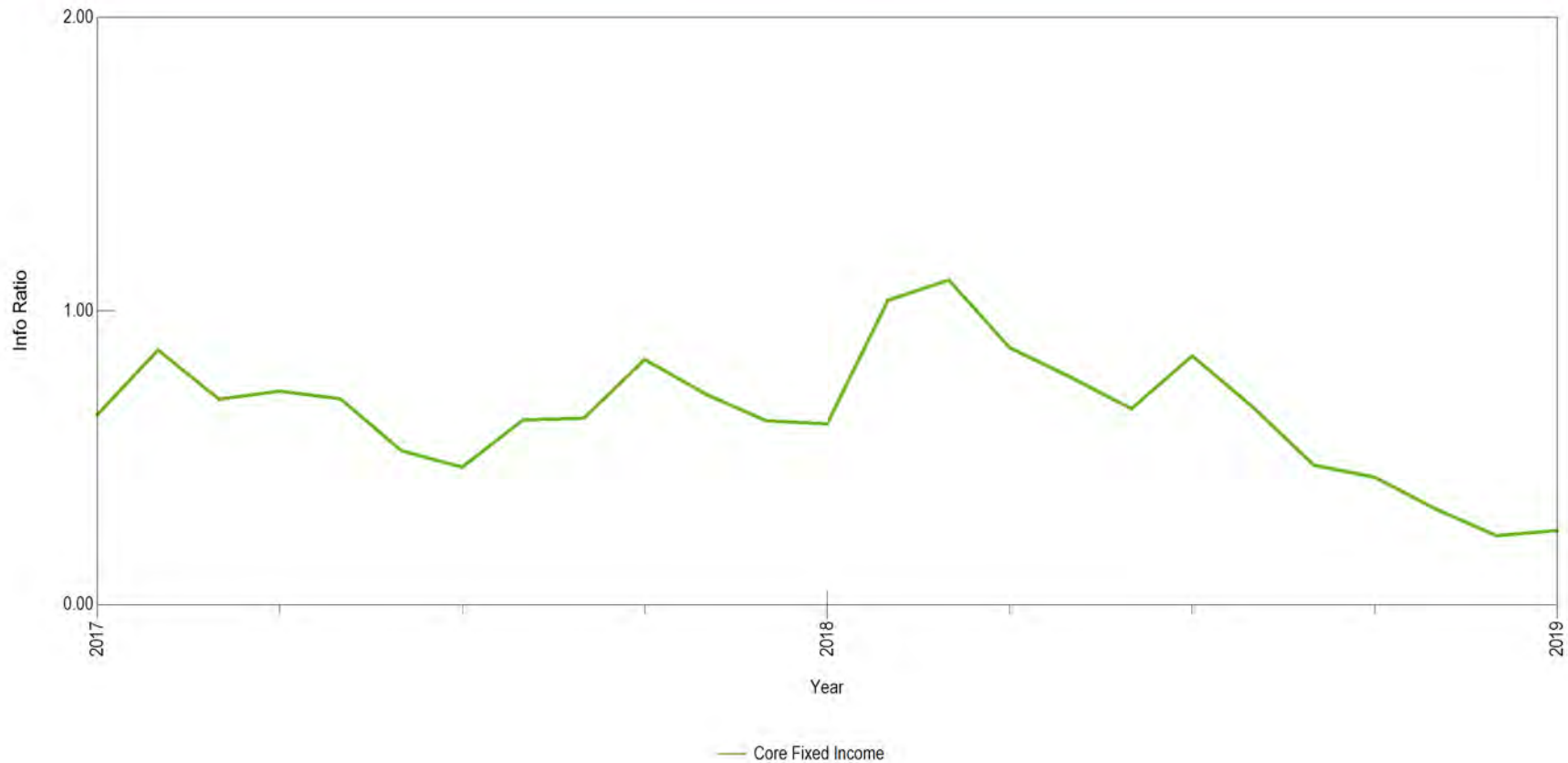
BBgBarc = Bloomberg Barclays

eV = eVestment



CORE FIXED INCOME 3 YEAR INFORMATION RATIO

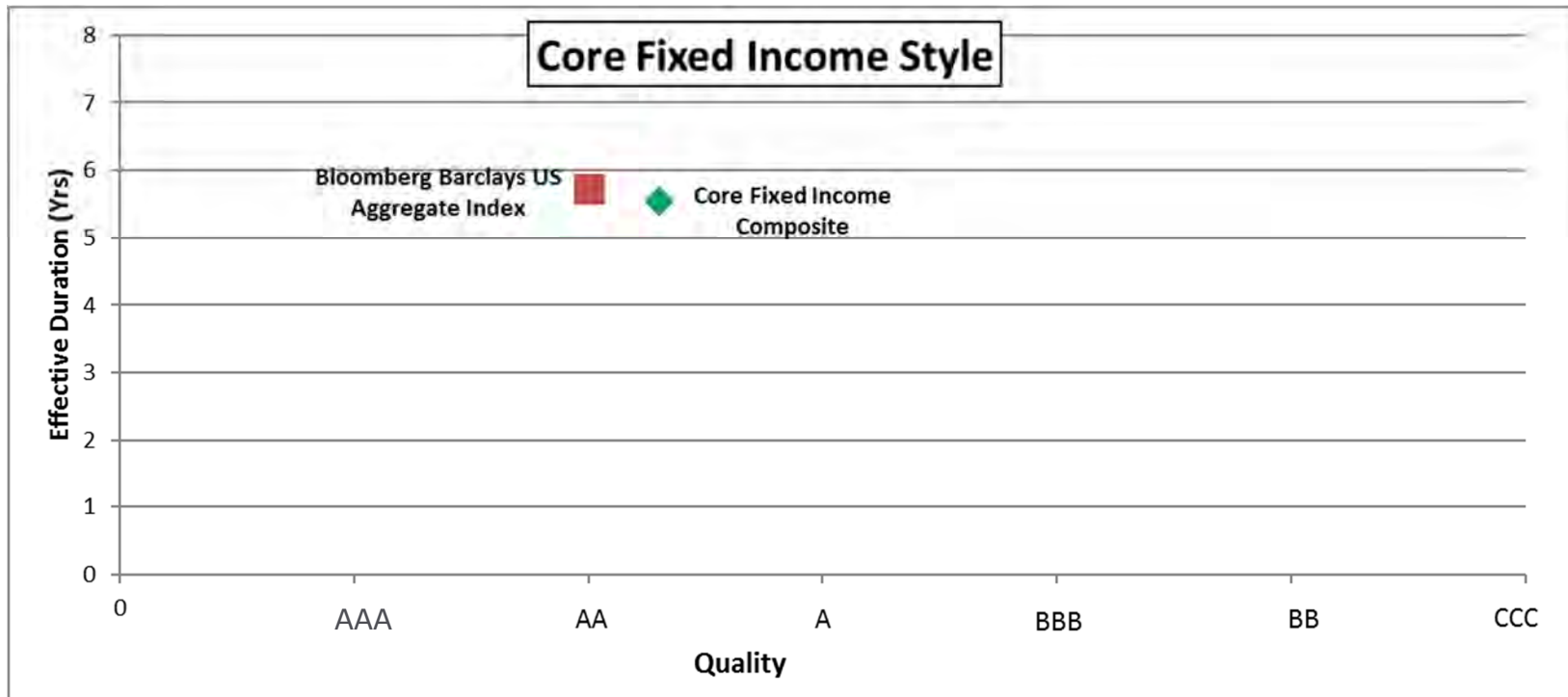
Rolling 3 Year Information Ratio



*Returns are net of fees



CORE FIXED INCOME STYLE ANALYSIS



- LACERS has a slightly lower duration (interest rate risk) than its benchmark.
- The Core Fixed Income Composite has slightly lower average quality rating than its benchmark.



MANAGER REPORT CARD

Core Fixed Income Managers	Inception Date	Mandate	Current Quarter (Net)		One Year (Net)		Three Years (Net)		Five Years (Net)		Since Inception (Net)	Annual Mgt Fee Paid \$ (000)	Comments
			Index	Universe	Index	Universe	Index	Universe	Index	Universe	Index		
			Neuberger Berman	Sep-01	Core	✓	✓	✓	✓	✗	✗		
Loomis Sayles	Jul-80	Core	=	✓	✓	✓	✓	✓	✓	✓	✓✓	952.5	Performance compliant with LACERS' Manager Monitoring Policy
Baird Advisors	Mar-05	Intermediate	✓	✓	✓	✓	✓	✓	✓	✓	✓	317.7	Performance compliant with LACERS' Manager Monitoring Policy
LM Capital Group	Mar-05	Core	✓	✓	✓	✓	✗	✗	✓	✓	✓	314.7	On Watch since March 2019 due to performance
SSgA (Passive)	Jul-14	Core	✗	✓	✗	✗	✗	✗	✗	✗	✗	394.4	Performance compliant with LACERS' Manager Monitoring Policy

Note: Managers are placed on Watch List for concerns with organization, process and performance. Managers are normally on the Watch List for 12 months though may be longer if manager issues remain but not severe enough to warrant termination recommendation.

- Annual Management Fee Paid as of fiscal year ending June 30, 2019.
- * Where net of fees performance is not available gross of fee returns are evaluated.

Legend	
✓	Outperformed
✗	Underperformed
=	Equal to
✓✓	Gross Return



CREDIT OPPORTUNITIES

NEPC, LLC

Los Angeles City Employees' Retirement System

CREDIT OPPORTUNITIES (GROSS)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Credit Opportunities	1,044,491,951	100.00	2.19	3.72	14.20	6.92	5.86		5.97	Jun-13
<i>Credit Opportunities Blend</i>			2.33	3.76	14.58	6.50	6.20		6.16	Jun-13
Over/Under			-0.14	-0.04	-0.38	0.42	-0.34		-0.19	
AEGON USA (ON Watch)	394,220,945	37.74	3.08	4.65	15.18	6.96	6.45		6.46	Jun-13
<i>BBgBarc US High Yield 2% Issuer Cap TR</i>			2.61	3.98	14.32	6.36	6.14		6.02	Jun-13
Over/Under			0.47	0.67	0.86	0.60	0.31		0.44	
Prudential Emerging Markets	435,565,443	41.70	2.60	4.54	17.48	8.28	7.15		6.31	May-14
<i>JP Morgan EMBI Global Diversified</i>			1.81	3.34	15.04	6.69	6.24		5.42	May-14
Over/Under			0.79	1.20	2.44	1.59	0.91		0.89	
Bain Capital Senior Loan Fund, LP*	214,692,345	20.55	-0.20	0.48	6.22	3.81			3.73	Jun-15
<i>Credit Suisse Leveraged Loans</i>			1.68	2.61	8.17	4.48			4.40	Jun-15
Over/Under			-1.88	-2.13	-1.95	-0.67			-0.67	

- Credit Opportunities Blend = 65% BBgBarc US High Yield 2% Issuer Cap TR / 35% JP Morgan EMBI Global Diversified 7/01/2014 to present; BBgBarc US High Yield 2% Issuer Cap TR prior to

eA = eVestment Alliance

BBgBarc = Bloomberg Barclays

*Net of fee return since vehicle is commingled.



Los Angeles City Employees' Retirement System

CREDIT OPPORTUNITIES (NET)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
Credit Opportunities	1,044,491,951	100.00	2.12		3.57		13.86		6.57		5.50				5.62	Jun-13
<i>Credit Opportunities Blend</i>			<u>2.33</u>		<u>3.76</u>		<u>14.58</u>		<u>6.50</u>		<u>6.20</u>				<u>6.16</u>	<i>Jun-13</i>
Over/Under			-0.21		-0.19		-0.72		0.07		-0.70				-0.54	
AEGON USA (On Watch)	394,220,945	37.74	2.98	14	4.46	18	14.75	29	6.56	13	6.05	21			6.09	Jun-13
<i>BBgBarc US High Yield 2% Issuer Cap TR</i>			<u>2.61</u>	35	<u>3.98</u>	40	<u>14.32</u>	36	<u>6.36</u>	21	<u>6.14</u>	18			<u>6.02</u>	<i>Jun-13</i>
Over/Under			0.37		0.48		0.43		0.20		-0.09				0.07	
<i>eV US High Yield Fixed Inc Net Median</i>			2.40		3.75		13.51		5.86		5.54				5.38	<i>Jun-13</i>
Prudential Emerging Markets	435,565,443	41.70	2.51	55	4.34	14	17.04	11	7.86	9	6.73	10			5.91	May-14
<i>JP Morgan EMBI Global Diversified</i>			<u>1.81</u>	96	<u>3.34</u>	41	<u>15.04</u>	36	<u>6.69</u>	35	<u>6.24</u>	27			<u>5.42</u>	<i>May-14</i>
Over/Under			0.70		1.00		2.00		1.17		0.49				0.49	
<i>eV Emg Mkts Fixed Inc - Hard Currency Net Median</i>			2.55		3.16		14.55		6.38		5.84				4.60	<i>May-14</i>
Bain Capital Senior Loan Fund, LP	214,692,345	20.55	-0.20	99	0.48	95	6.22	87	3.81	66					3.73	Jun-15
<i>Credit Suisse Leveraged Loans</i>			<u>1.68</u>	37	<u>2.61</u>	61	<u>8.17</u>	45	<u>4.48</u>	11					<u>4.40</u>	<i>Jun-15</i>
Over/Under			-1.88		-2.13		-1.95		-0.67						-0.67	
<i>eV US Float-Rate Bank Loan Fixed Inc Net Median</i>			1.63		2.68		8.05		3.96						3.99	<i>Jun-15</i>

- Credit Opportunities Blend = 65% BBgBarc US High Yield 2% Issuer Cap TR / 35% JP Morgan EMBI Global Diversified 7/01/2014 to present; BBgBarc US High Yield 2% Issuer Cap TR prior to

eA = eVestment Alliance

BBgBarc = Bloomberg Barclays



MANAGER REPORT CARD

Credit Opportunities Managers	Inception Date	Mandate	Current Quarter (Net)		One Year (Net)		Three Years (Net)		Five Years (Net)		Since Inception (Net)	Annual Mgt Fee Paid \$ (000)	Comments
			Index	Universe	Index	Universe	Index	Universe	Index	Universe	Index		
AEGON USA	Jun-13	High Yield Bonds	✓	✓	✓	✓	✓	✓	✗	✓	✓	1,428.4	On Watch since October 2017 due to organizational reasons
Prudential	May-14	Emerging Market Debt	✓	✗	✓	✓	✓	✓	✓	✓	✓	1,432.7	Performance compliant with LACERS' Manager Monitoring Policy
Bain	Jun-15	Bank Loans	✗	✗	✗	✗	✗	✗	N/A	N/A	✗	754.3	Performance compliant with LACERS' Manager Monitoring Policy

Note: Managers are placed on Watch List for concerns with organization, process and performance. Managers are normally on the Watch List for 12 months though may be longer if manager issues remain but not severe enough to warrant termination recommendation.

- Annual Management Fee Paid as of fiscal year ending June 30, 2019.
- * Where net of fees performance is not available gross of fee returns are evaluated.

Legend	
✓	Outperformed
✗	Underperformed
=	Equal to
✓✓	Gross Return



REAL ASSETS

NEPC, LLC

Los Angeles City Employees' Retirement System

REAL ASSETS (GROSS)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Real Assets	2,040,951,824	100.00	1.49	2.68	8.80	5.76	6.12	6.99	6.32	Nov-94
<i>CPI + 5% (Unadjusted)</i>			<u>1.31</u>	<u>2.80</u>	<u>7.39</u>	<u>7.20</u>	<u>6.90</u>	<u>6.83</u>	<u>7.28</u>	<i>Nov-94</i>
Over/Under			0.18	-0.12	1.41	-1.44	-0.78	0.16	-0.96	
Public Real Assets	1,213,466,379	59.46	1.41	2.99	11.58	3.86	2.97		2.17	Jun-14
<i>Public Real Assets Blend</i>			<u>1.02</u>	<u>1.74</u>	<u>10.23</u>	<u>2.53</u>	<u>1.14</u>		<u>-0.10</u>	<i>Jun-14</i>
Over/Under			0.39	1.25	1.35	1.33	1.83		2.27	
TIPS	757,292,768	37.10	0.80	1.61	8.60	3.52	2.78		2.02	Jul-14
<i>BBgBarc US TIPS TR</i>			<u>0.79</u>	<u>2.14</u>	<u>8.43</u>	<u>3.31</u>	<u>2.62</u>		<u>2.01</u>	<i>Jul-14</i>
Over/Under			0.01	-0.53	0.17	0.21	0.16		0.01	
DFA US TIPS ¹	757,292,768	37.10	0.80	1.61	8.60	3.52	2.95		2.15	Aug-14
<i>BBgBarc US TIPS TR</i>			<u>0.79</u>	<u>2.14</u>	<u>8.43</u>	<u>3.31</u>	<u>2.62</u>		<u>2.01</u>	<i>Aug-14</i>
Over/Under			0.01	-0.53	0.17	0.21	0.33		0.14	
REITS	233,580,919	11.44	0.21	8.07	30.24	10.93			9.38	Mar-15
<i>FTSE NAREIT All Equity REIT</i>			<u>0.13</u>	<u>7.87</u>	<u>28.66</u>	<u>10.16</u>			<u>7.92</u>	<i>Mar-15</i>
Over/Under			0.08	0.20	1.58	0.77			1.46	
CenterSquare US Real Estate ¹	233,580,919	11.44	0.21	8.07	30.24	10.93			10.28	May-15
<i>FTSE NAREIT All Equity REIT</i>			<u>0.13</u>	<u>7.87</u>	<u>28.66</u>	<u>10.16</u>			<u>9.24</u>	<i>May-15</i>
Over/Under			0.08	0.20	1.58	0.77			1.04	
Commodities	222,592,691	10.91	4.72	2.33	7.21	-0.25			-3.51	Jun-15
<i>Bloomberg Commodity Index TR USD</i>			<u>4.42</u>	<u>2.50</u>	<u>7.69</u>	<u>-0.94</u>			<u>-4.02</u>	<i>Jun-15</i>
Over/Under			0.30	-0.17	-0.48	0.69			0.51	
CoreCommodity Mgmt ¹	222,592,691	10.91	4.72	2.33	7.21	-0.25			-3.51	Jul-15
<i>Bloomberg Commodity Index TR USD</i>			<u>4.42</u>	<u>2.50</u>	<u>7.69</u>	<u>-0.94</u>			<u>-4.02</u>	<i>Jul-15</i>
Over/Under			0.30	-0.17	-0.48	0.69			0.51	
Private Real Estate	809,255,880	39.65	1.64	2.33	5.67	7.61	8.81	8.47	6.89	Oct-94
<i>Real Estate Blend</i>			<u>1.71</u>	<u>3.25</u>	<u>6.18</u>	<u>7.95</u>	<u>9.84</u>	<u>11.31</u>	<u>9.80</u>	<i>Oct-94</i>
Over/Under			-0.07	-0.92	-0.51	-0.34	-1.03	-2.84	-2.91	
Timber	18,229,566	0.89	-0.05	-0.54	2.74	2.61	2.92	4.45	9.14	Sep-99

¹ Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.

- Public Real Assets Custom Benchmark = 60% BBgBarc US TIPS TR / 20% Bloomberg Commodity Index TR USD / 10% Alerian MLP TR USD / 10% FTSE NAREIT All REIT

- Real Estate Blend = NCREIF-ODCE + 80bps 7/1/2014 to present; NCREIF Property Index 1 Qtr Lag plus 100bps 7/1/2012 - 6/30/2014; NCREIF Property Index prior to

eA = eVestment Alliance



Los Angeles City Employees' Retirement System

REAL ASSETS (NET)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
Real Assets	2,040,951,824	100.00	1.45		2.60		8.63		5.60		5.96		6.84			Nov-94
<i>CPI + 5% (Unadjusted)</i>			<u>1.31</u>		<u>2.80</u>		<u>7.39</u>		<u>7.20</u>		<u>6.90</u>		<u>6.83</u>			<i>Nov-94</i>
Over/Under			0.14		-0.20		1.24		-1.60		-0.94		0.01			
Public Real Assets	1,213,466,379	59.46	1.36		2.89		11.36		3.61		2.74				1.96	Jun-14
<i>Public Real Assets Blend</i>			<u>1.02</u>		<u>1.74</u>		<u>10.23</u>		<u>2.53</u>		<u>1.14</u>				<u>-0.10</u>	<i>Jun-14</i>
Over/Under			0.34		1.15		1.13		1.08		1.60				2.06	
TIPS	757,292,768	37.10	0.79		1.58		8.55		3.46		2.72				1.96	Jul-14
<i>BBgBarc US TIPS TR</i>			<u>0.79</u>		<u>2.14</u>		<u>8.43</u>		<u>3.31</u>		<u>2.62</u>				<u>2.01</u>	<i>Jul-14</i>
Over/Under			0.00		-0.56		0.12		0.15		0.10				-0.05	
DFA US TIPS¹	757,292,768	37.10	0.79	50	1.58	84	8.55	48	3.46	29	2.89	16			2.10	Aug-14
<i>BBgBarc US TIPS TR</i>			<u>0.79</u>	<u>50</u>	<u>2.14</u>	<u>42</u>	<u>8.43</u>	<u>54</u>	<u>3.31</u>	<u>52</u>	<u>2.62</u>	<u>42</u>			<u>2.01</u>	<i>Aug-14</i>
Over/Under			0.00		-0.56		0.12		0.15		0.27				0.09	
<i>eV US TIPS / Inflation Fixed Inc Net Median</i>			0.79		2.11		8.55		3.33		2.53				1.76	<i>Aug-14</i>
REITS	233,580,919	11.44	0.11		7.88		29.74		10.46						8.93	Mar-15
<i>FTSE NAREIT All Equity REIT</i>			<u>0.13</u>		<u>7.87</u>		<u>28.66</u>		<u>10.16</u>						<u>7.92</u>	<i>Mar-15</i>
Over/Under			-0.02		0.01		1.08		0.30						1.01	
CenterSquare US Real Estate¹	233,580,919	11.44	0.11	54	7.88	51	29.74	32	10.46	27					9.81	May-15
<i>FTSE NAREIT All Equity REIT</i>			<u>0.13</u>	<u>53</u>	<u>7.87</u>	<u>51</u>	<u>28.66</u>	<u>41</u>	<u>10.16</u>	<u>32</u>					<u>9.24</u>	<i>May-15</i>
Over/Under			-0.02		0.01		1.08		0.30						0.57	
<i>eV US REIT Net Median</i>			0.31		7.89		27.88		8.55						8.01	<i>May-15</i>
Commodities	222,592,691	10.91	4.57		2.06		6.62		-0.97						-4.19	Jun-15
<i>Bloomberg Commodity Index TR USD</i>			<u>4.42</u>		<u>2.50</u>		<u>7.69</u>		<u>-0.94</u>						<u>-4.02</u>	<i>Jun-15</i>
Over/Under			0.15		-0.44		-1.07		-0.03						-0.17	
CoreCommodity Mgmt¹	222,592,691	10.91	4.57		2.06		6.62		-0.97						-4.19	Jul-15
<i>Bloomberg Commodity Index TR USD</i>			<u>4.42</u>		<u>2.50</u>		<u>7.69</u>		<u>-0.94</u>						<u>-4.02</u>	<i>Jul-15</i>
Over/Under			0.15		-0.44		-1.07		-0.03						-0.17	

¹ Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance. No universe is available.

- Public Real Assets Custom Benchmark = 60% BBgBarc US TIPS TR / 20% Bloomberg Commodity Index TR USD / 10% Alerian MLP TR USD / 10% FTSE NAREIT All REIT

eA = eVestment Alliance



Los Angeles City Employees' Retirement System

REAL ASSETS (NET)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
Private Real Estate	809,255,880	39.65	1.62	20	2.29	62	5.57	58	7.53	25	8.72	38	8.35	79		Oct-94
<i>Real Estate Blend</i>			<u>1.71</u>	18	<u>3.25</u>	14	<u>6.18</u>	28	<u>7.95</u>	14	<u>9.84</u>	3	<u>11.31</u>	4		Oct-94
Over/Under			-0.09		-0.96		-0.61		-0.42		-1.12		-2.96			
<i>InvMetrics Public DB Real Estate Priv Net Median</i>			1.28		2.86		5.84		7.23		8.51		9.96			Oct-94
Timber	18,229,566	0.89	-0.05		-0.54		2.74		2.61		2.92		5.06			Sep-99

- Real Estate Blend = NCREIF-ODCE + 80bps 7/1/2014 to present; NCREIF Property Index 1 Qtr Lag plus 100bps 7/1/2012 - 6/30/2014; NCREIF Property Index prior to eA = eVestment Alliance



MANAGER REPORT CARD

Real Assets Managers	Inception Date	Mandate	Current Quarter (Net)		One Year (Net)		Three Years (Net)		Five Years (Net)		Since Inception (Net)	Annual Mgt Fee Paid \$ (000)	Comments
			Index	Universe	Index	Universe	Index	Universe	Index	Universe	Index		
DFA	Jul-14	U.S. TIPS	=	=	✓	=	✓	✓	✓	✓	✓	333.9	Performance compliant with LACERS' Manager Monitoring Policy
CenterSquare	Apr-15	REITS	✗	✗	✓	✓	✓	✓	N/A	N/A	✓	592.3	Performance compliant with LACERS' Manager Monitoring Policy
CoreCommodity Mgt.	Jul-15	Commodities	✓	N/A	✗	N/A	✗	N/A	N/A	N/A	✗	983.9	Performance compliant with LACERS' Manager Monitoring Policy

Note: Managers are placed on Watch List for concerns with organization, process and performance. Managers are normally on the Watch List for 12 months though may be longer if manager issues remain but not severe enough to warrant termination recommendation.

- Annual Management Fee Paid as of fiscal year ending June 30, 2019.
- * Where net of fees performance is not available gross of fee returns are evaluated.

Legend	
✓	Outperformed
✗	Underperformed
=	Equal to
✓✓	Gross Return



APPENDIX

NEPC, LLC

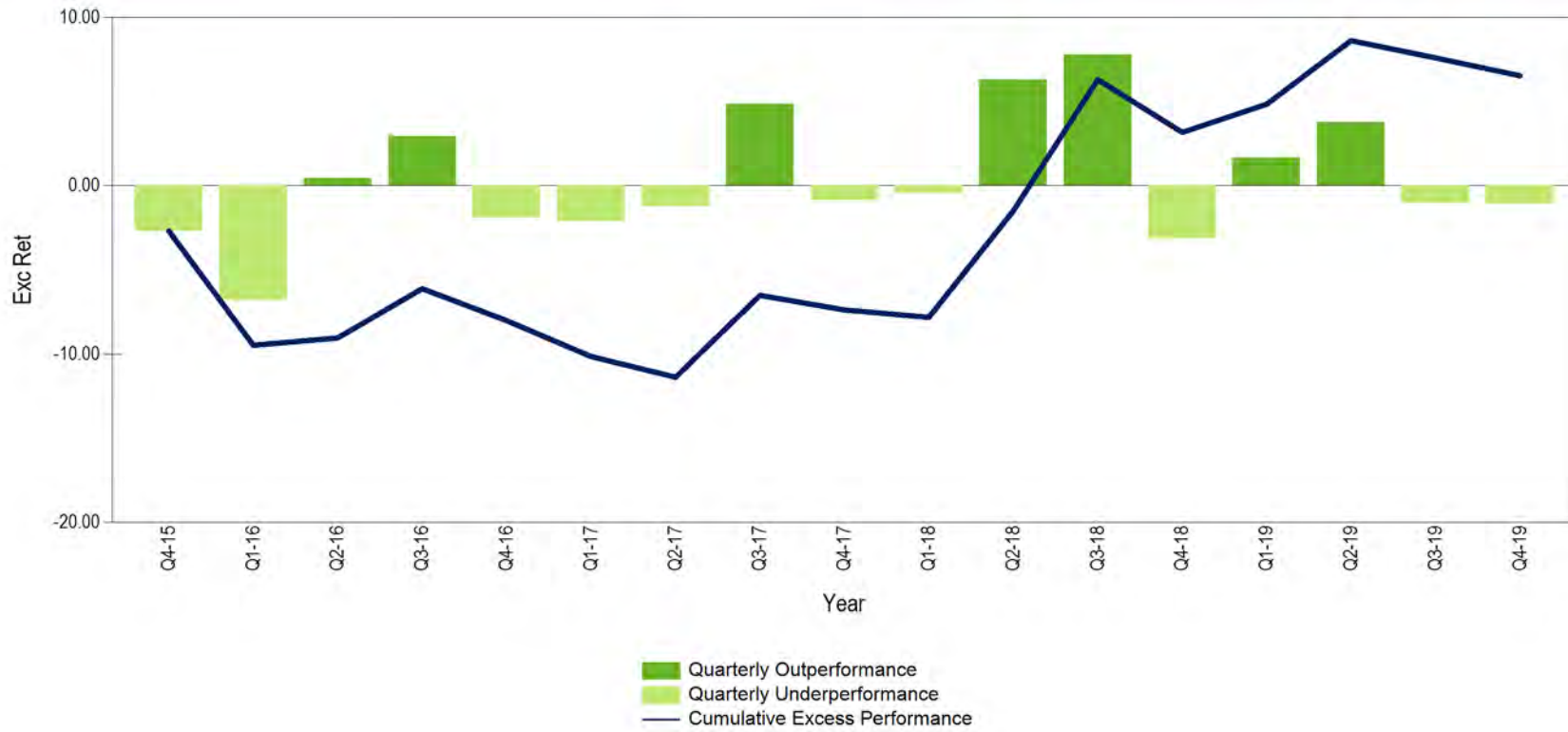
U.S. EQUITY MANAGER PERFORMANCE

NEPC, LLC

Los Angeles City Employees' Retirement System

EAM INVESTORS

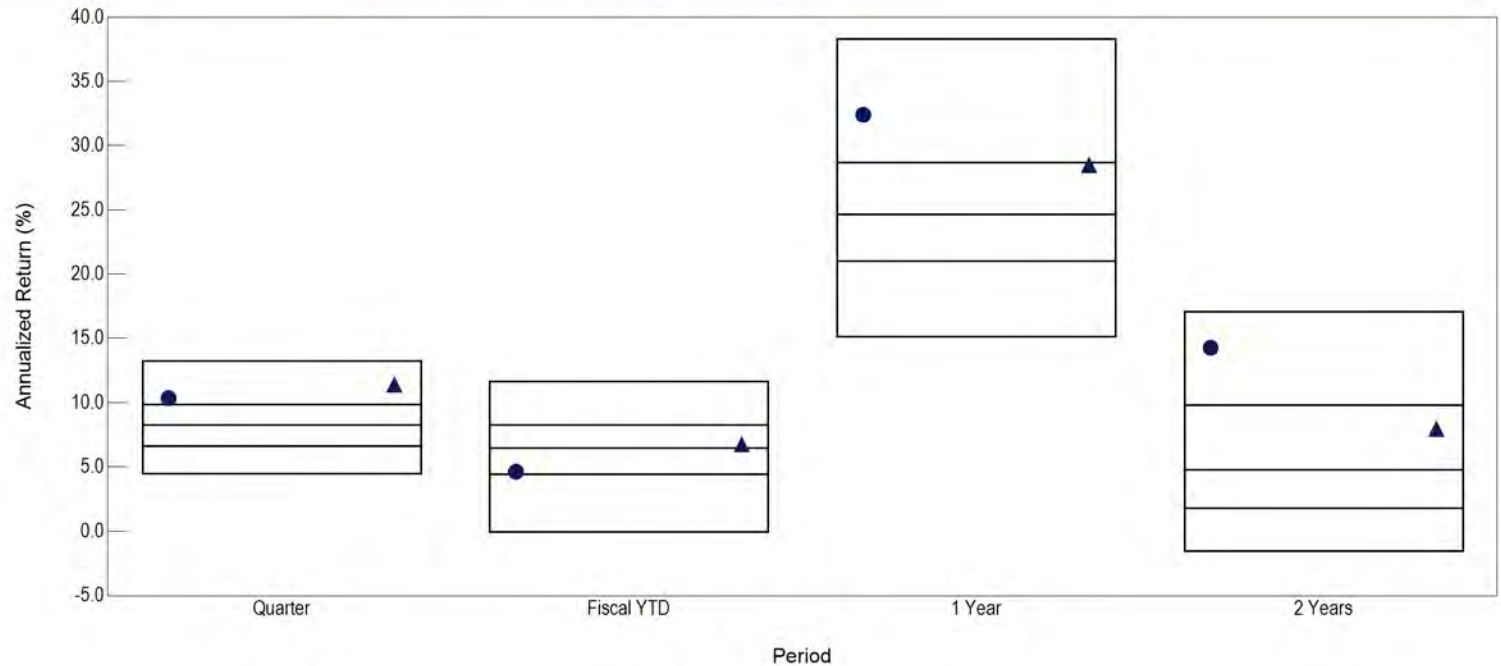
Quarterly and Cumulative Excess Performance



Los Angeles City Employees' Retirement System

EAM INVESTORS

EAM Investors vs. eV US Small Cap Equity Net



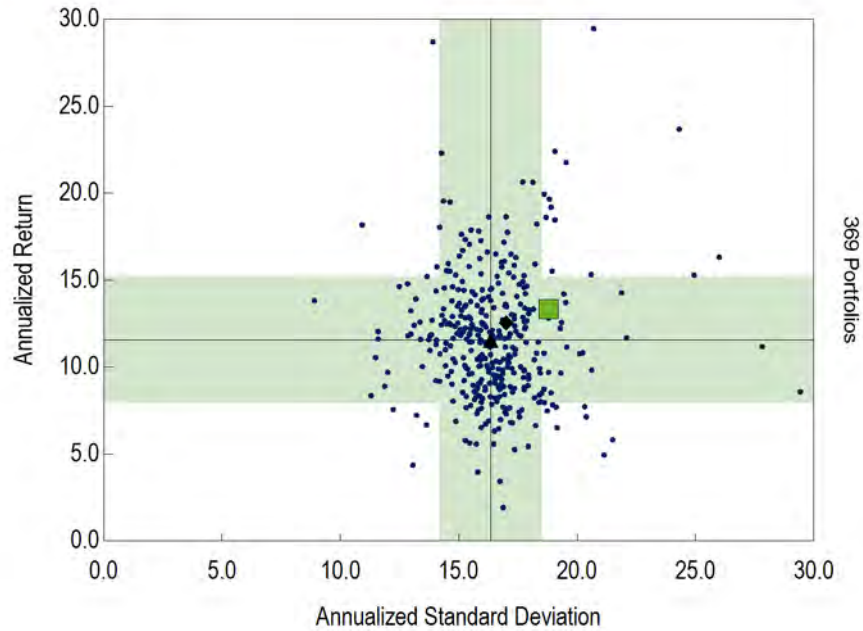
	Return (Rank)							
5th Percentile	13.20		11.64		38.30		17.05	
25th Percentile	9.89		8.27		28.73		9.84	
Median	8.26		6.50		24.68		4.82	
75th Percentile	6.65		4.47		21.03		1.81	
95th Percentile	4.47		0.00		15.14		-1.48	
# of Portfolios	395		395		395		392	
● EAM Investors	10.33	(19)	4.60	(74)	32.39	(15)	14.25	(11)
▲ Russell 2000 Growth	11.39	(12)	6.75	(47)	28.48	(26)	7.95	(33)



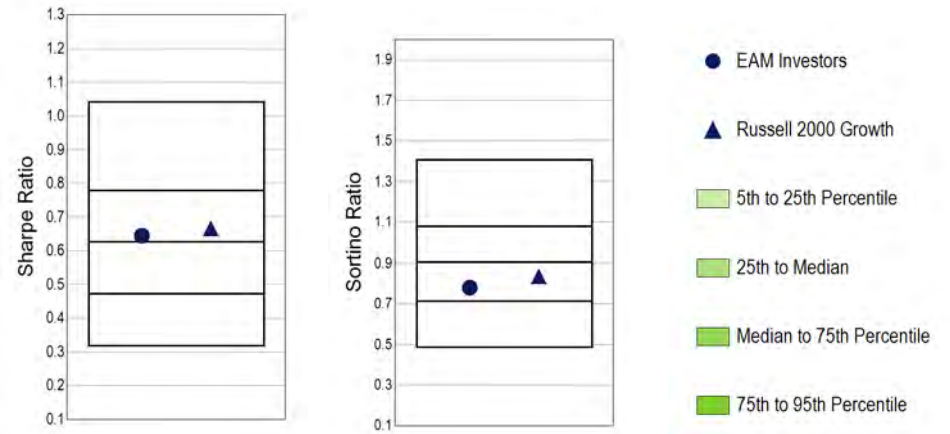
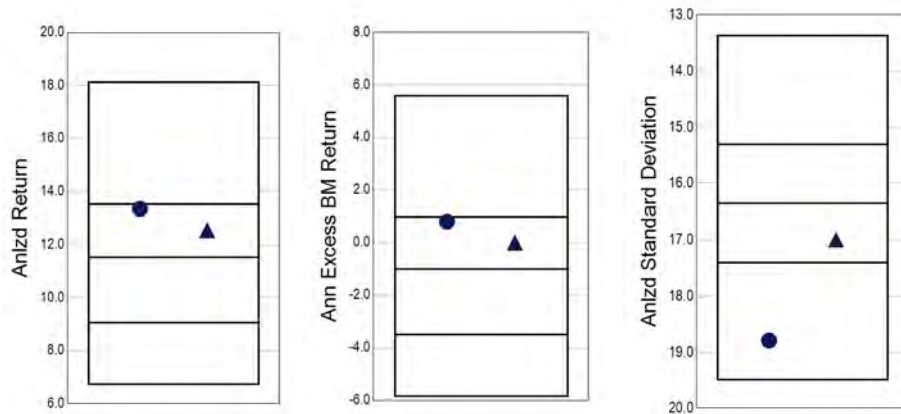
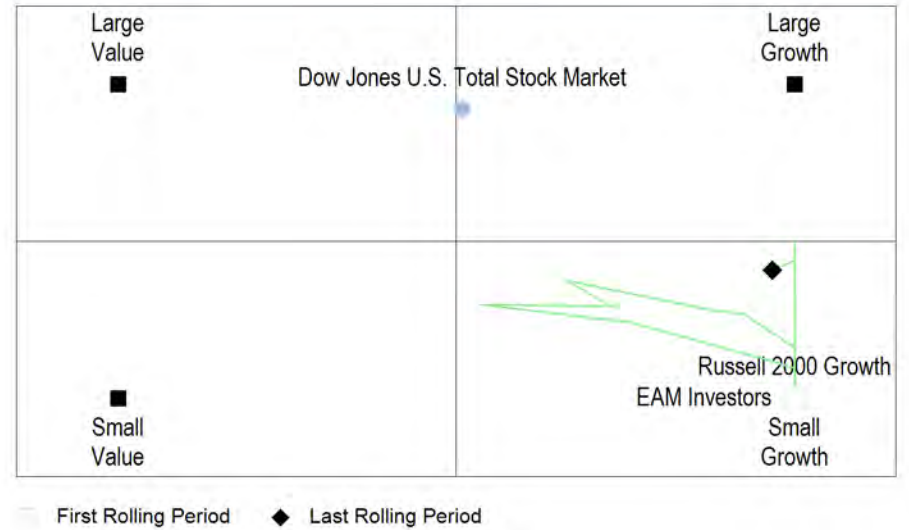
Los Angeles City Employees' Retirement System

EAM INVESTORS

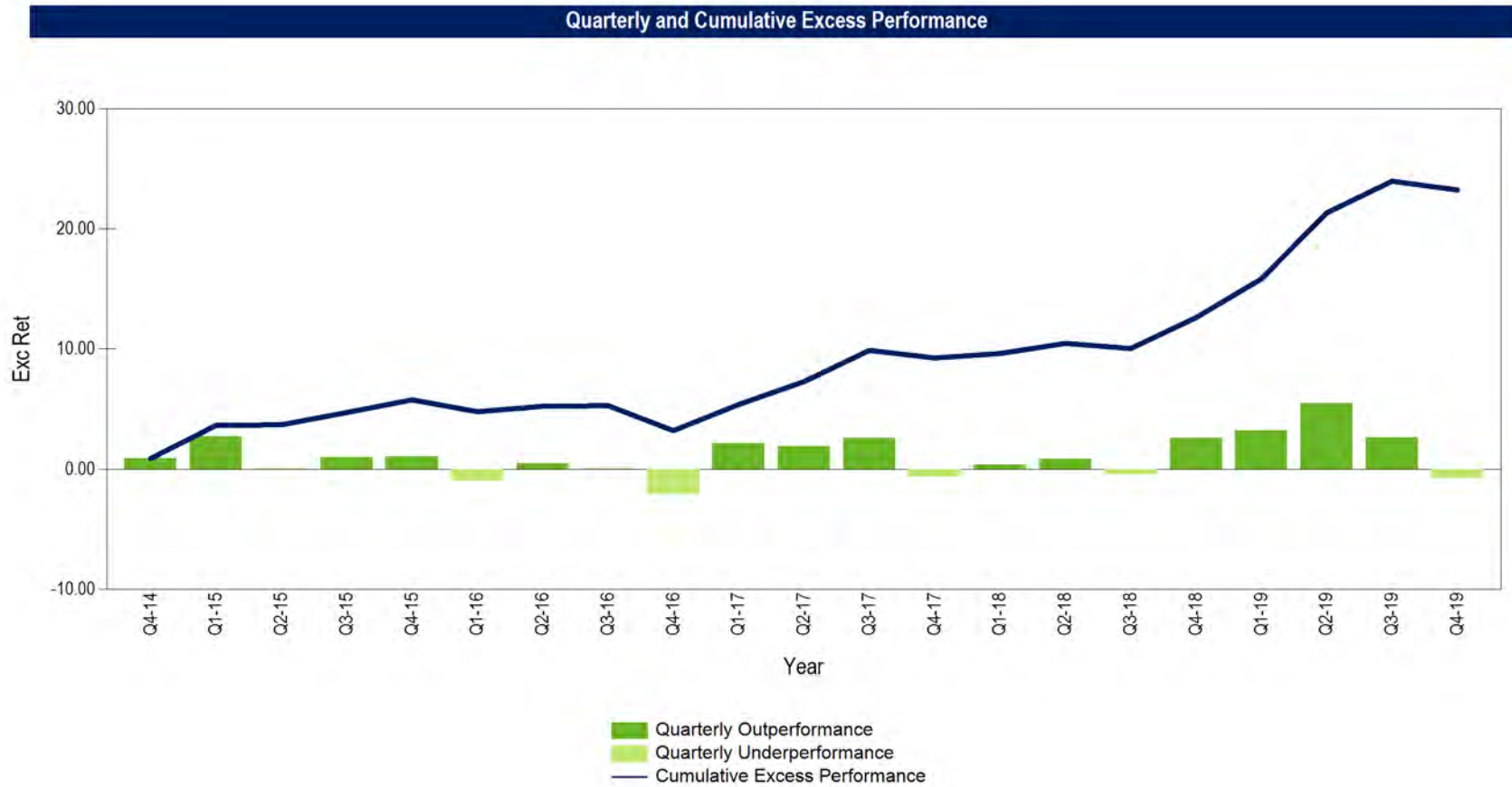
Since Inception Risk Return



Since Inception Style Map



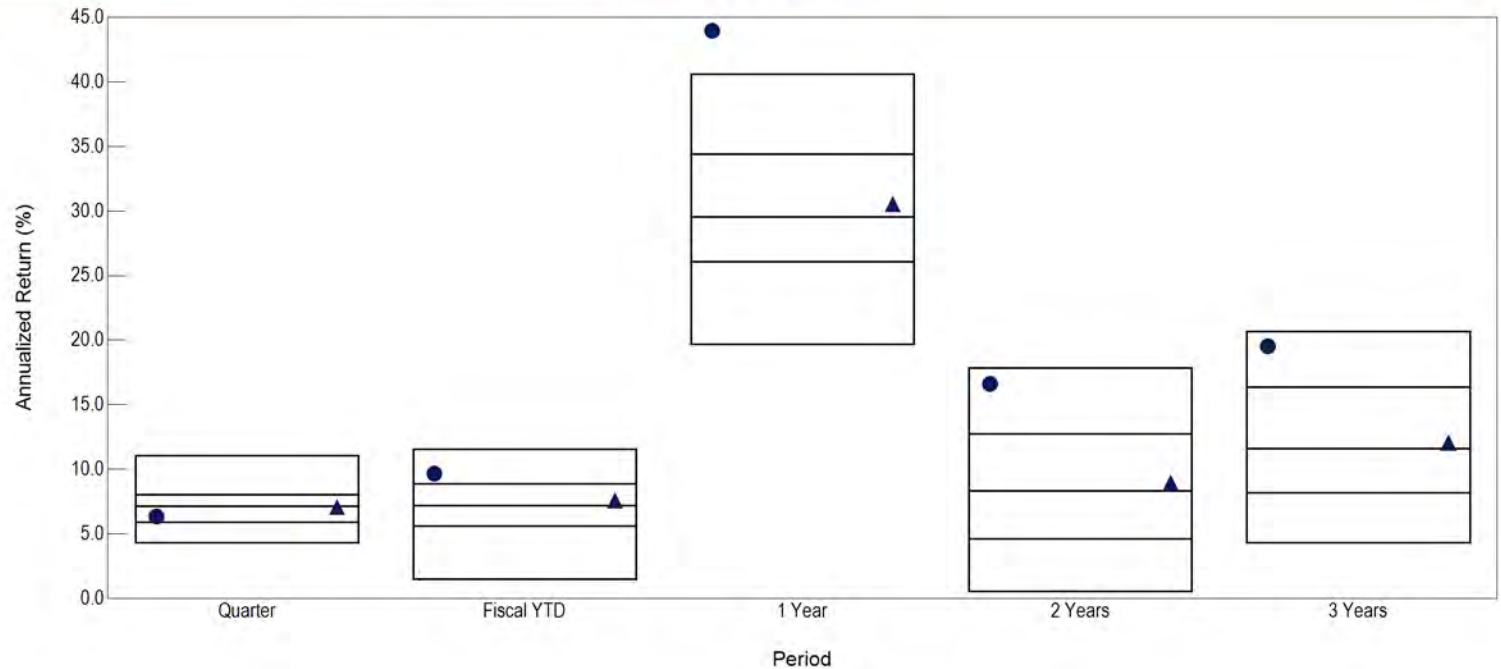
PRINCIPAL GLOBAL INVESTORS



Los Angeles City Employees' Retirement System

PRINCIPAL GLOBAL INVESTORS

Principal Global Investors vs. eV US Mid Cap Equity Net

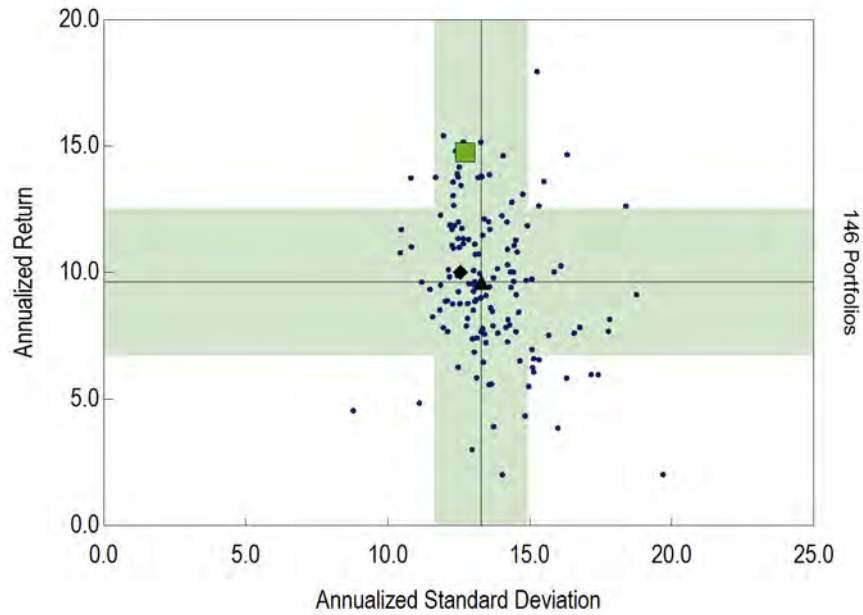


	Return (Rank)									
5th Percentile	11.04		11.54		40.61		17.86		20.65	
25th Percentile	8.07		8.93		34.43		12.79		16.39	
Median	7.17		7.22		29.61		8.36		11.66	
75th Percentile	5.92		5.61		26.11		4.67		8.22	
95th Percentile	4.36		1.53		19.73		0.56		4.34	
# of Portfolios	157		156		156		155		154	
● Principal Global Investors	6.33	(67)	9.65	(18)	43.96	(2)	16.60	(10)	19.51	(11)
▲ Russell MidCap	7.06	(51)	7.58	(45)	30.54	(44)	8.96	(47)	12.05	(48)

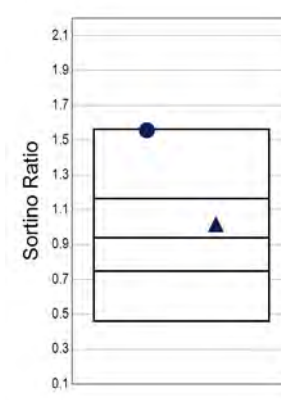
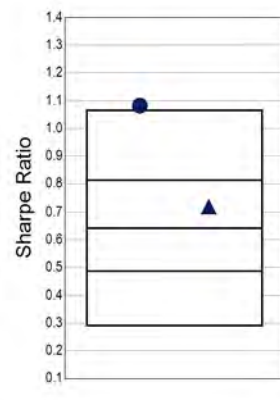
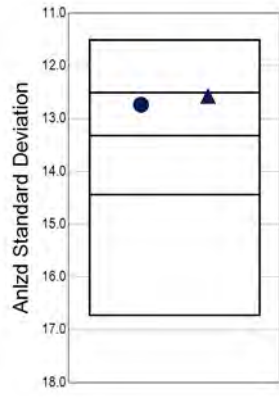
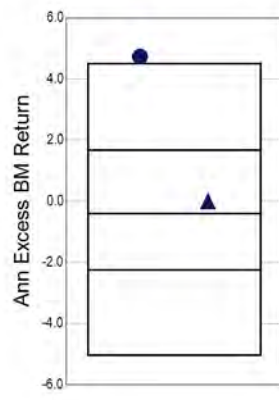
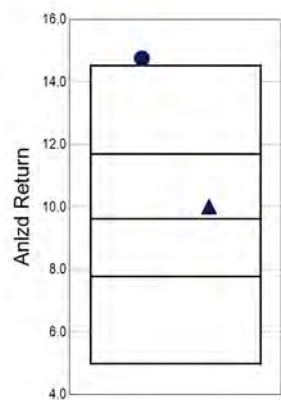
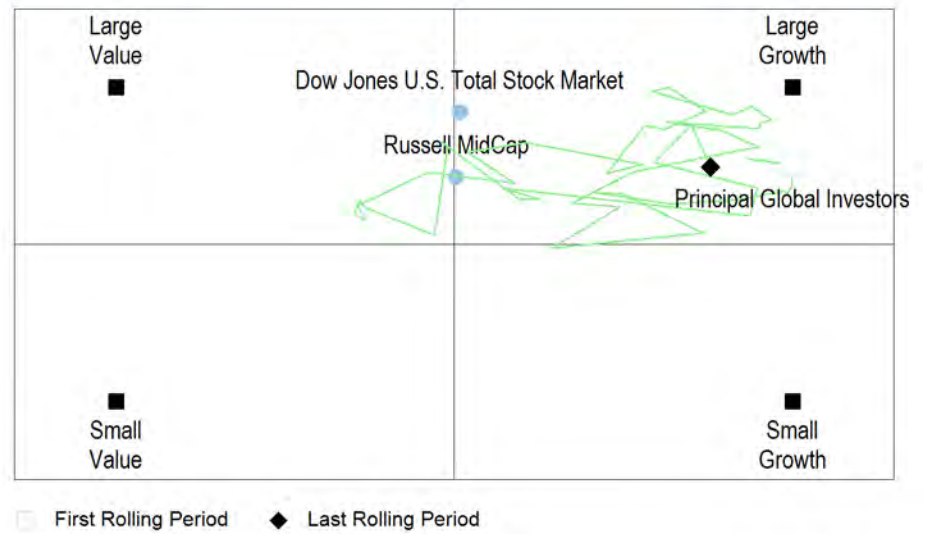


PRINCIPAL GLOBAL INVESTORS

Since Inception Risk Return



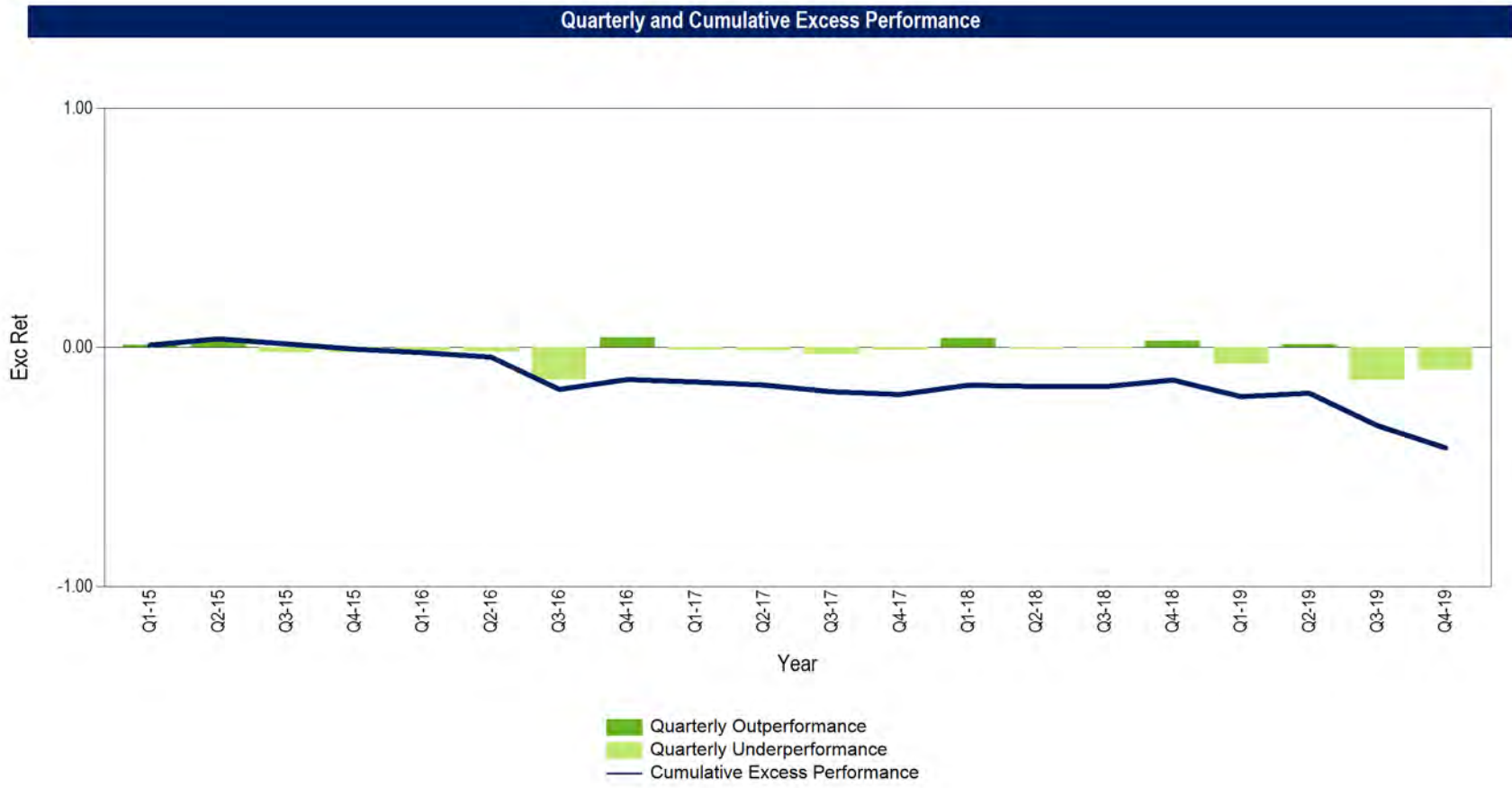
Since Inception Style Map



- Principal Global Investors
- ▲ Russell MidCap
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



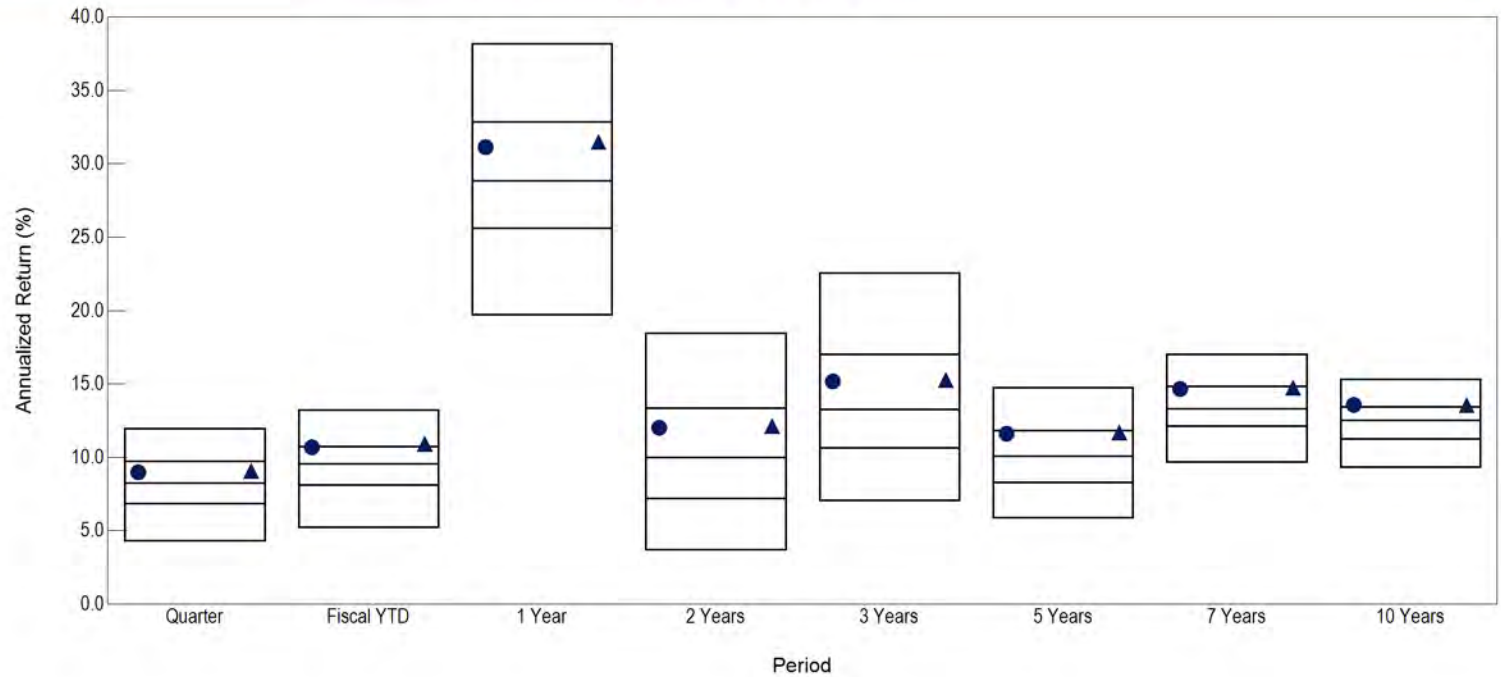
RHUMBLINE ADVISORS S&P 500



Los Angeles City Employees' Retirement System

RHUMBLINE ADVISORS S&P 500

Rhumbline Advisors S&P 500 vs. eV US Large Cap Equity Net

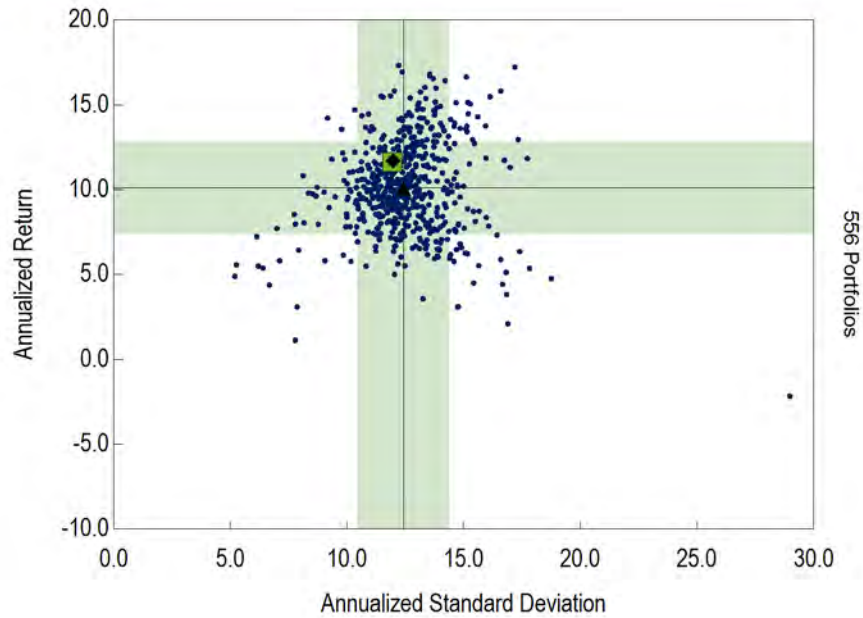


	Return (Rank)															
5th Percentile	11.94	13.23	38.19	18.46	22.56	14.75	17.04	15.32								
25th Percentile	9.77	10.77	32.92	13.39	17.08	11.85	14.88	13.49								
Median	8.27	9.61	28.89	10.02	13.30	10.10	13.34	12.57								
75th Percentile	6.89	8.17	25.65	7.26	10.68	8.32	12.19	11.31								
95th Percentile	4.38	5.29	19.77	3.76	7.12	5.93	9.73	9.36								
# of Portfolios	607	607	607	602	591	556	518	442								
● Rhumbline Advisors S&P 200	8.98	(37)	10.68	(27)	31.14	(37)	12.01	(33)	15.17	(36)	11.61	(29)	14.66	(29)	13.57	(25)
▲ S&P 500	9.07	(37)	10.92	(23)	31.49	(35)	12.13	(32)	15.27	(36)	11.70	(28)	14.73	(28)	13.56	(25)

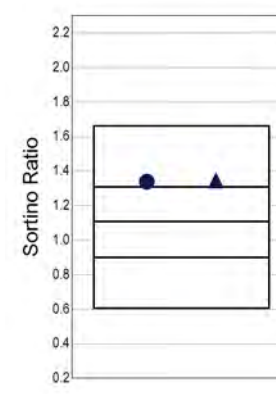
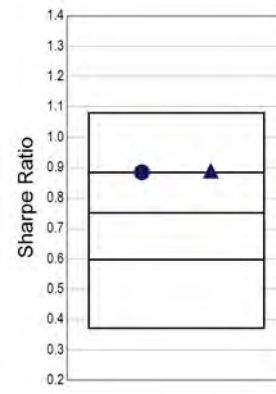
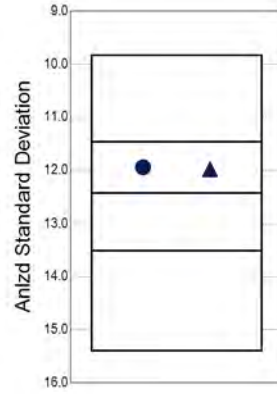
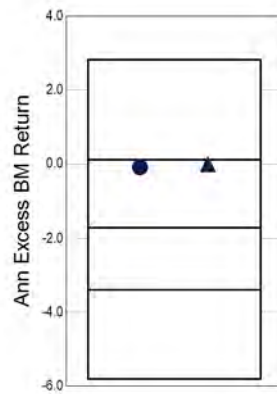
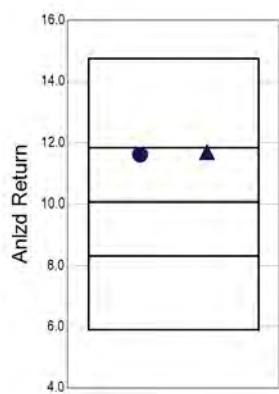
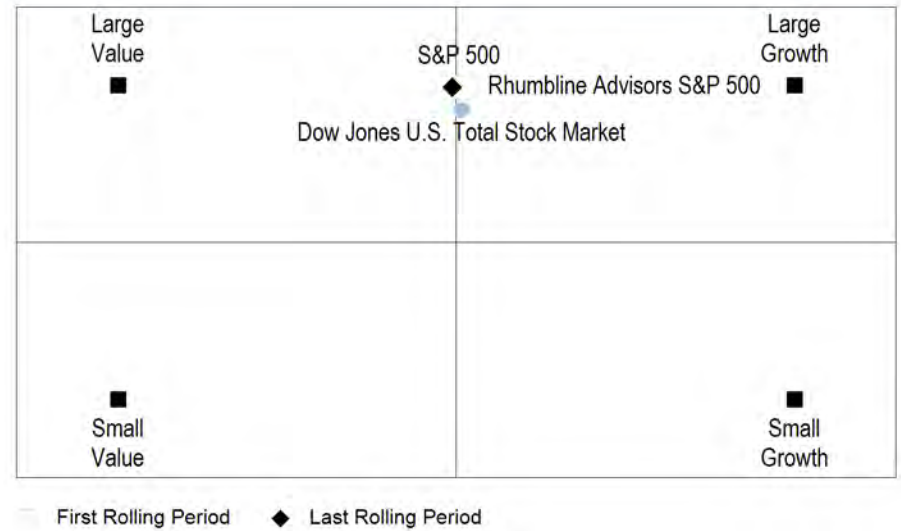


RHUMBLINE ADVISORS S&P 500

5 Year Risk Return



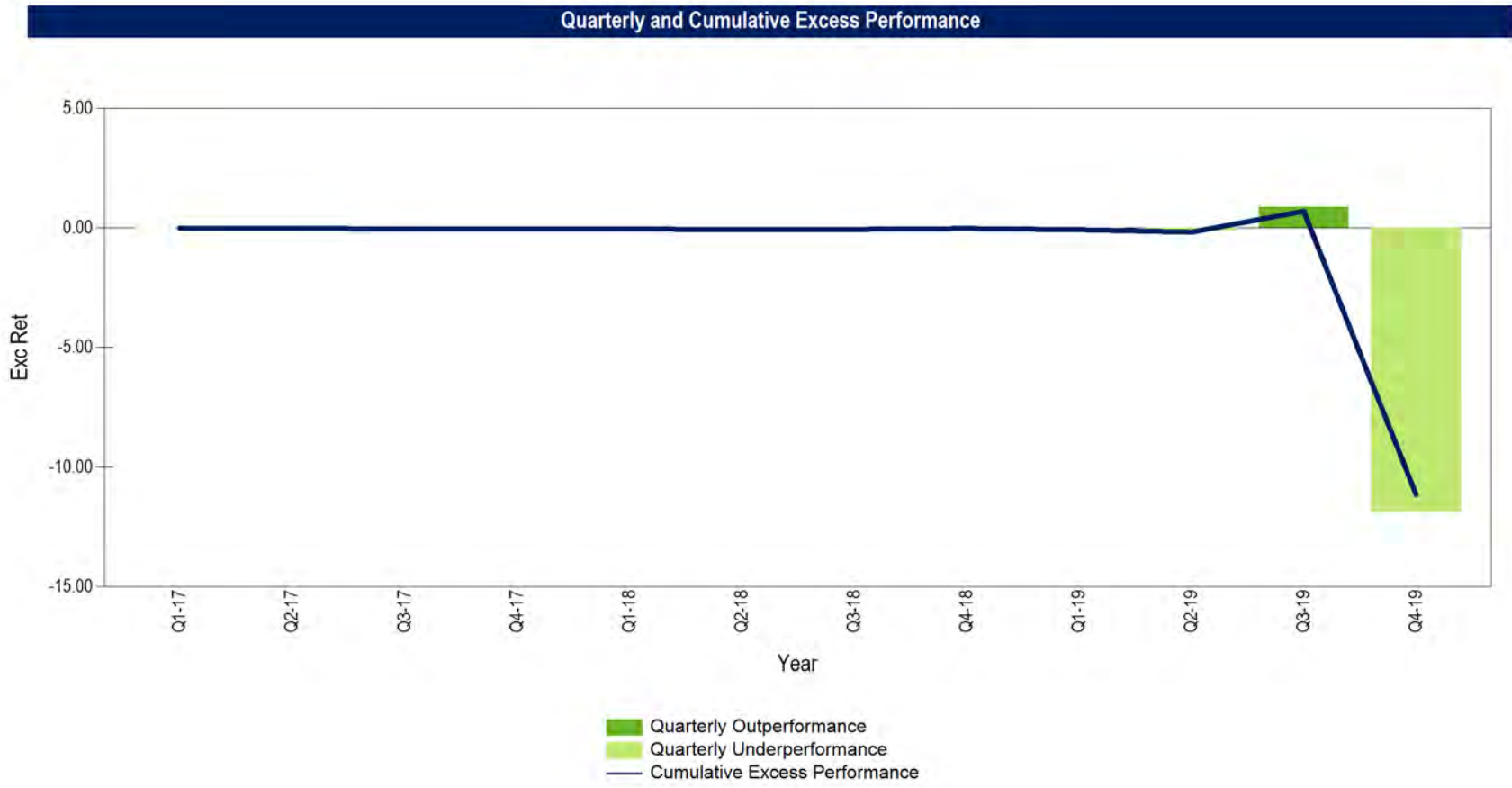
5 Year Style Map



- Rhumbline Advisors S&P 500
- ▲ S&P 500
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile

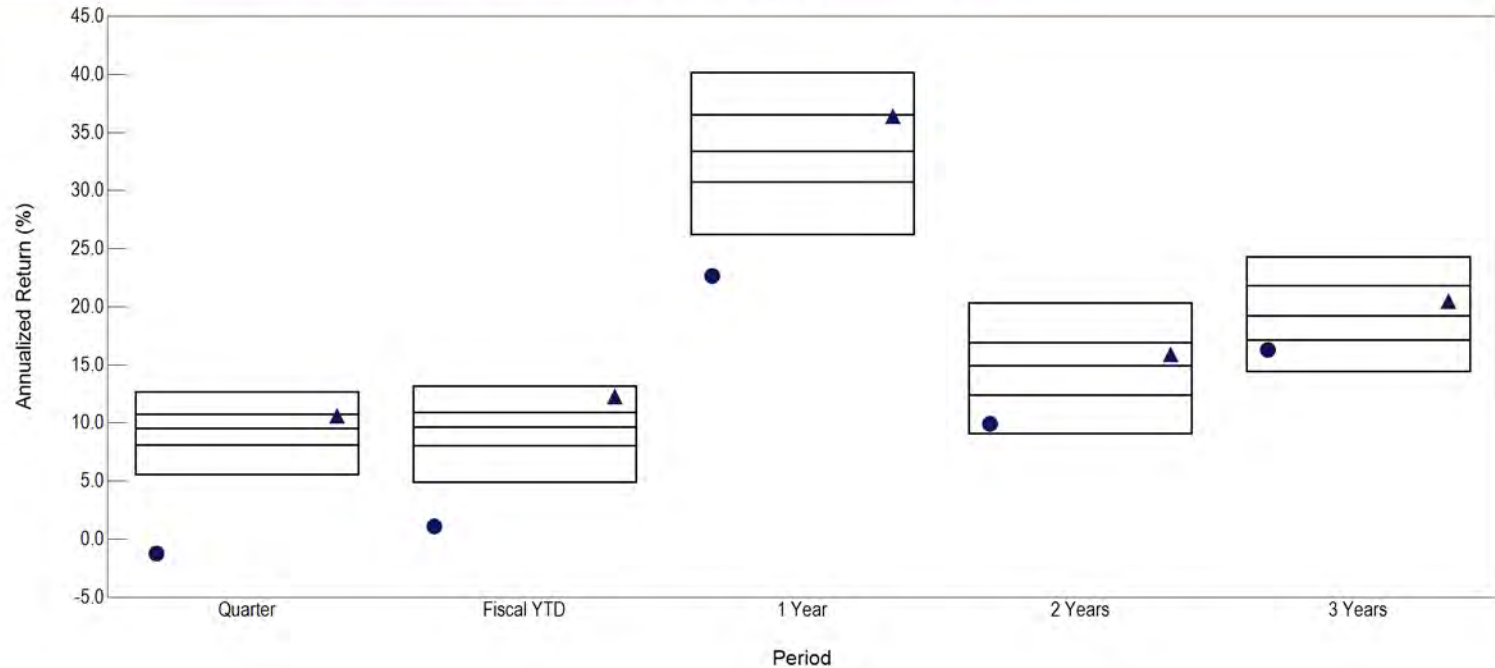


RHUMBLINE ADVISORS RUSSELL 1000 GROWTH



RHUMBLINE ADVISORS RUSSELL 1000 GROWTH

Rhumbline Advisors Russell 1000 Growth vs. eV US Large Cap Growth Equity Net

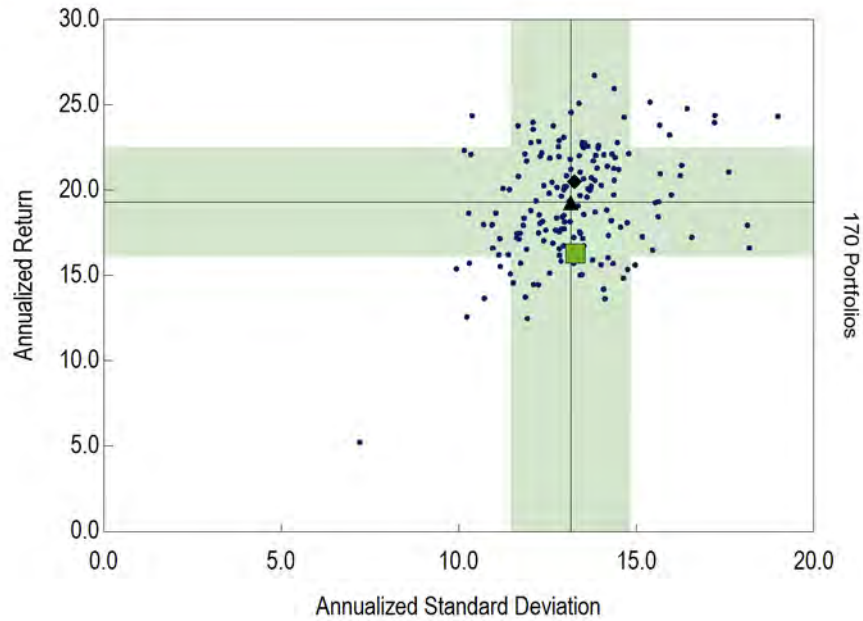


	Return (Rank)									
5th Percentile	12.69		13.18		40.15		20.34		24.30	
25th Percentile	10.81		10.96		36.56		16.97		21.85	
Median	9.58		9.70		33.43		14.98		19.29	
75th Percentile	8.13		8.11		30.77		12.42		17.16	
95th Percentile	5.60		4.94		26.25		9.12		14.51	
# of Portfolios	176		176		176		174		170	
● Rhumbline Advisors Russell 1000 Growth	-1.24	(99)	1.10	(99)	22.65	(99)	9.92	(94)	16.29	(83)
▲ Russell 1000 Growth	10.62	(29)	12.27	(11)	36.39	(28)	15.90	(36)	20.49	(37)

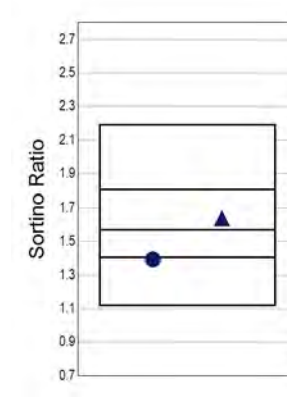
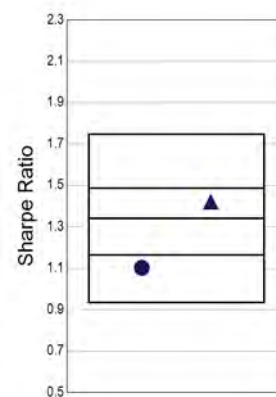
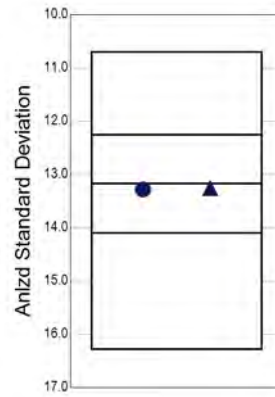
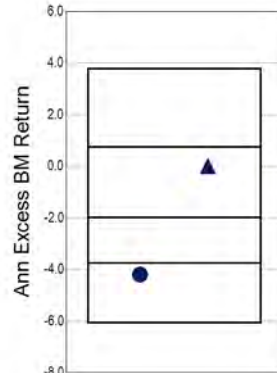
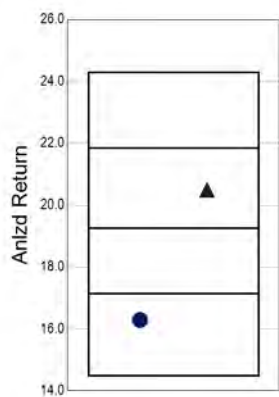
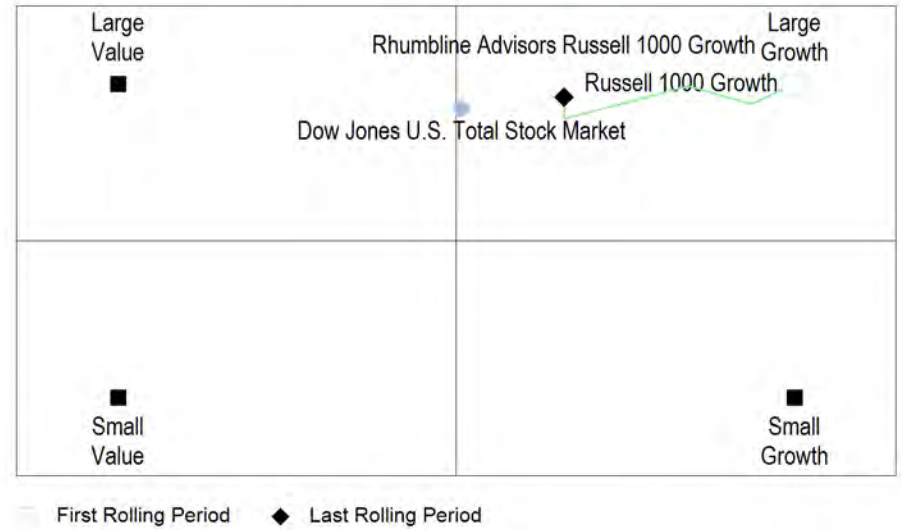


RHUMBLINE ADVISORS RUSSELL 1000 GROWTH

3 Year Risk Return



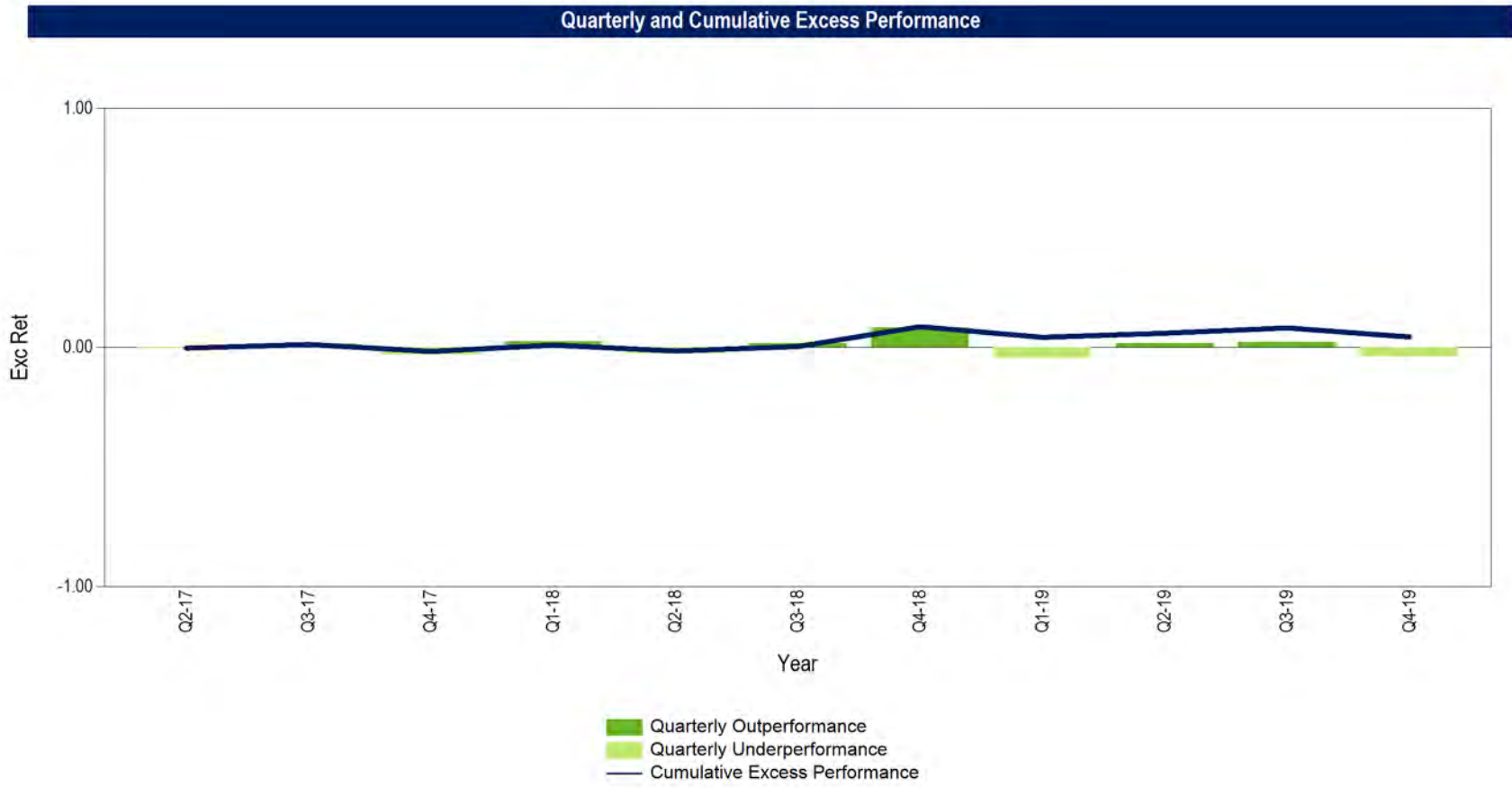
3 Year Style Map



- Rhumbline Advisors Russell 1000 Growth
- ▲ Russell 1000 Growth
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile

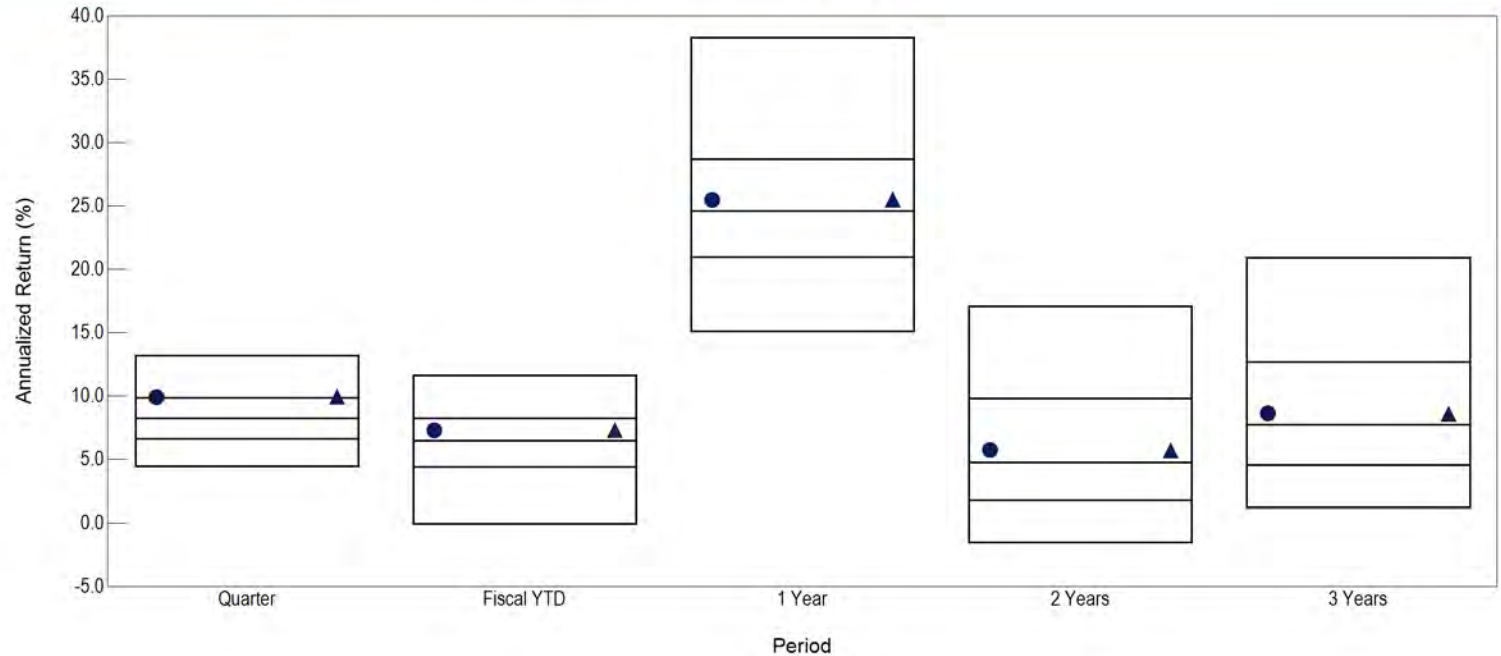


RHUMBLINE ADVISORS RUSSELL 2000



RHUMBLINE ADVISORS RUSSELL 2000

Rhumbline Advisors Russell 2000 vs. eV US Small Cap Equity Net

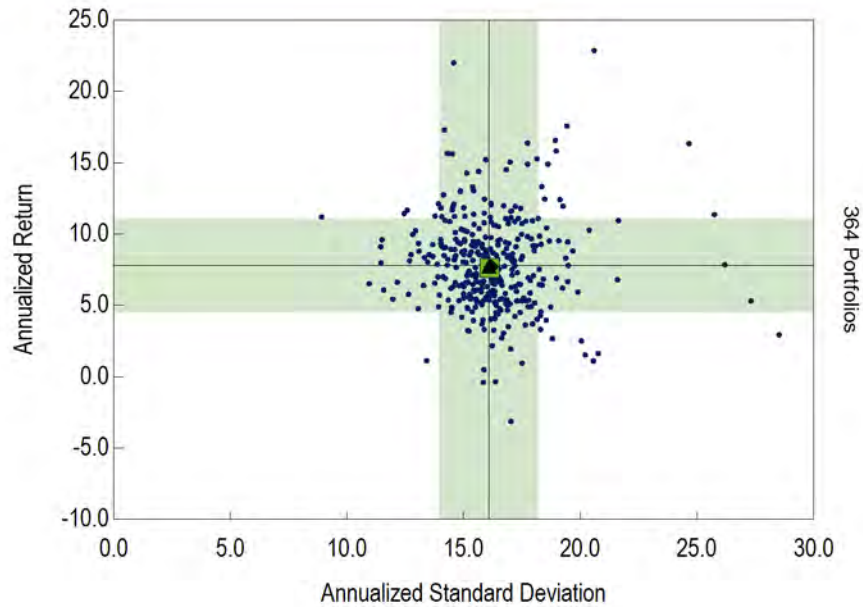


	Return (Rank)									
5th Percentile	13.20		11.64		38.30		17.05		20.89	
25th Percentile	9.89		8.27		28.73		9.84		12.73	
Median	8.26		6.50		24.68		4.82		7.78	
75th Percentile	6.65		4.47		21.03		1.81		4.58	
95th Percentile	4.47		0.00		15.14		-1.48		1.25	
# of Portfolios	395		395		395		392		385	
● Rhumbline Advisors Russell 2000	9.90	(25)	7.29	(41)	25.48	(45)	5.74	(45)	8.62	(46)
▲ Russell 2000	9.94	(25)	7.30	(41)	25.52	(45)	5.69	(45)	8.59	(46)

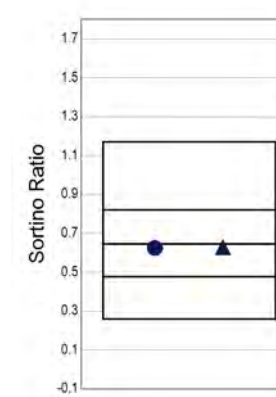
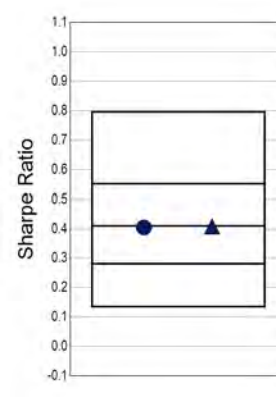
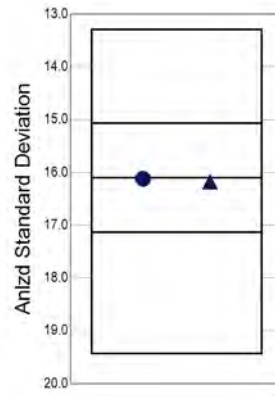
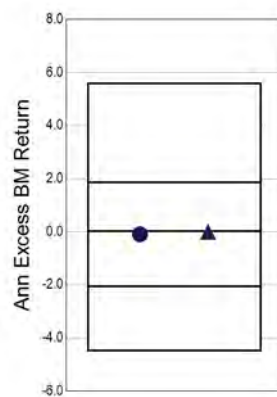
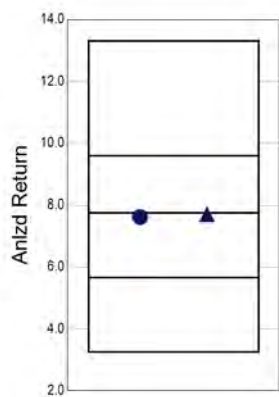
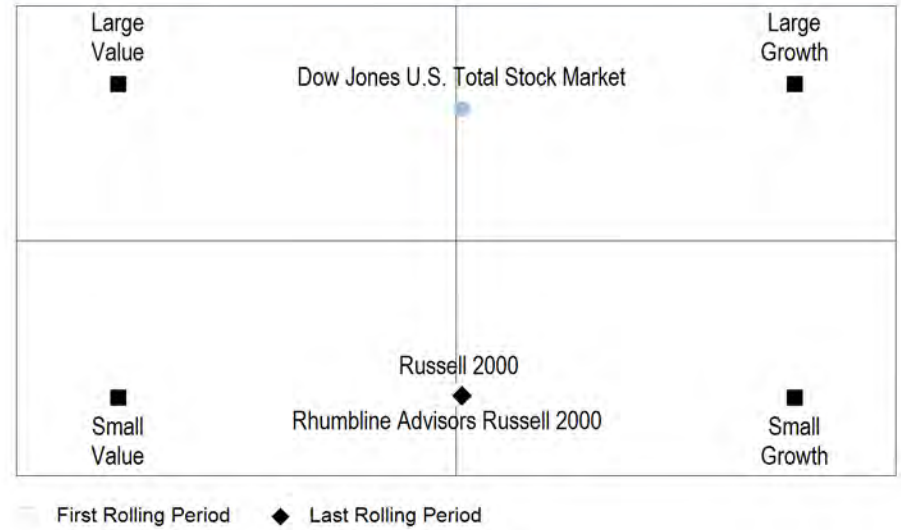


RHUMBLINE ADVISORS RUSSELL 2000

Since Inception Risk Return



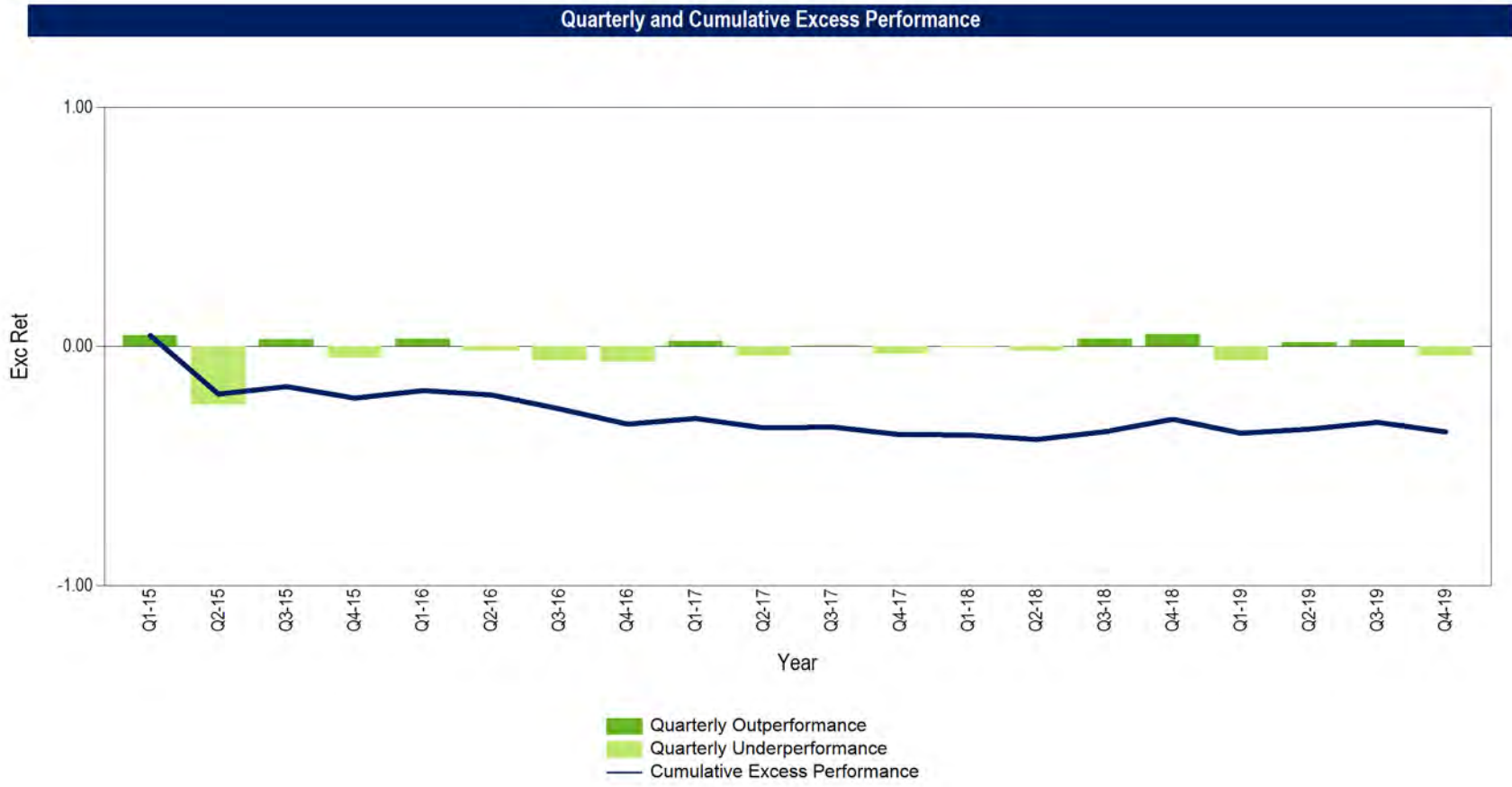
Since Inception Style Map



- Rhumbline Advisors Russell 2000
- ▲ Russell 2000
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile

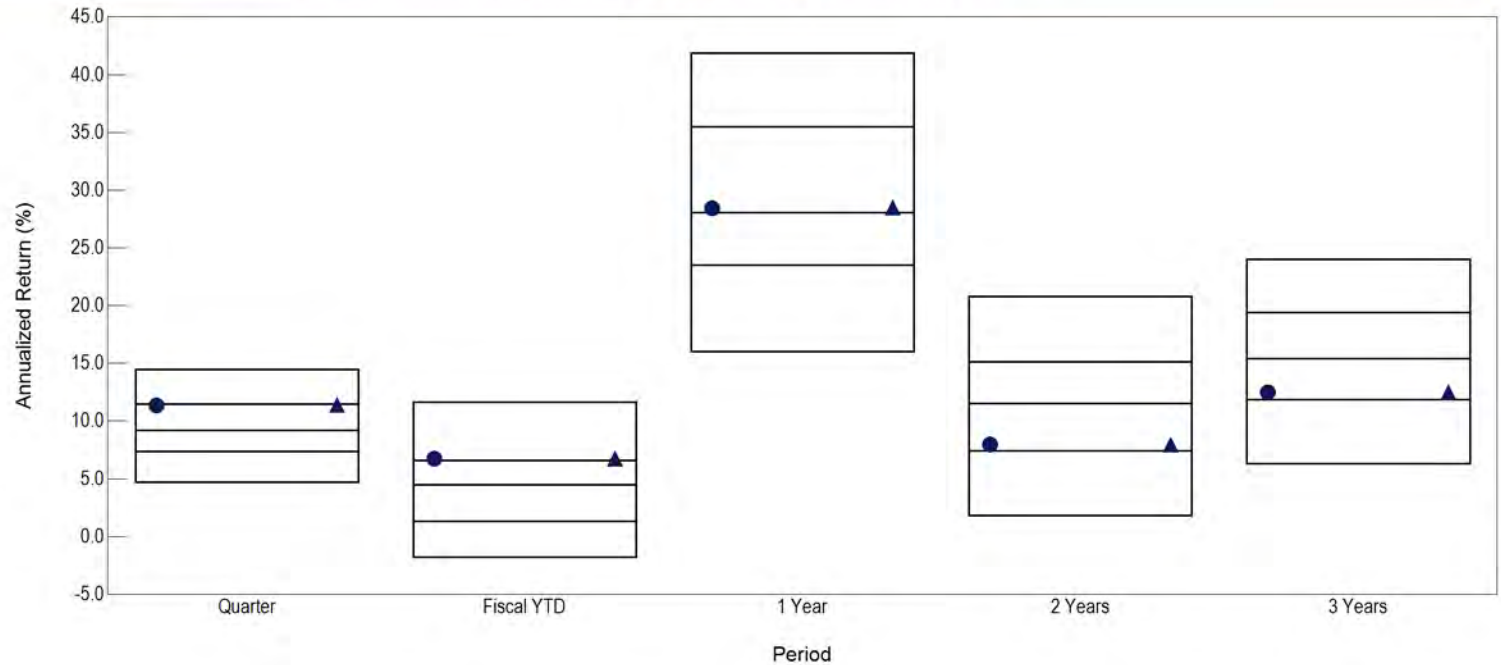


RHUMBLINE ADVISORS RUSSELL 2000 GROWTH



RHUMBLINE ADVISORS RUSSELL 2000 GROWTH

Rhumbline Advisors Russell 2000 Growth vs. eV US Small Cap Growth Equity Net

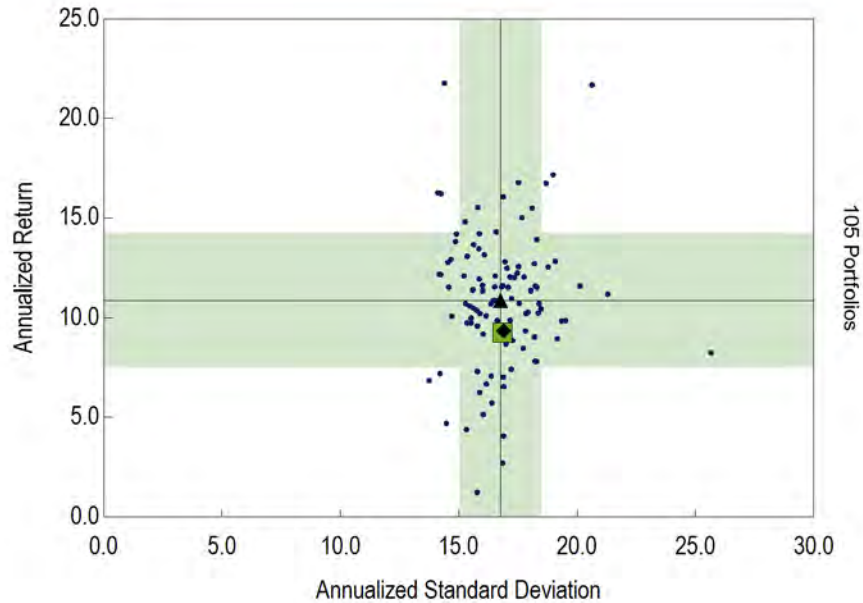


	Return (Rank)									
5th Percentile	14.48		11.64		41.88		20.76		24.02	
25th Percentile	11.52		6.62		35.52		15.20		19.45	
Median	9.26		4.51		28.09		11.58		15.46	
75th Percentile	7.42		1.36		23.54		7.45		11.91	
95th Percentile	4.73		-1.73		16.06		1.90		6.36	
# of Portfolios	117		117		117		116		115	
● Rhumbline Advisors Russell 2000 Growth	11.35	(26)	6.74	(25)	28.43	(49)	7.97	(74)	12.49	(73)
▲ Russell 2000 Growth	11.39	(26)	6.75	(25)	28.48	(49)	7.95	(74)	12.49	(73)

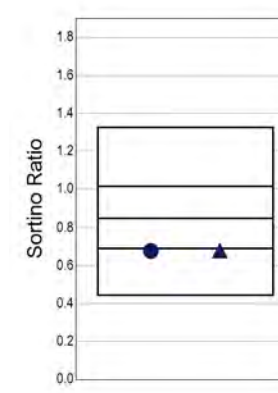
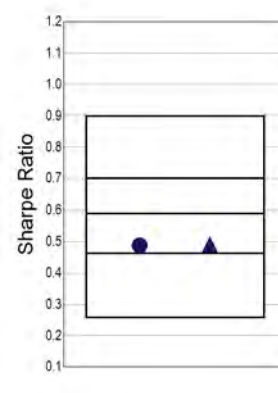
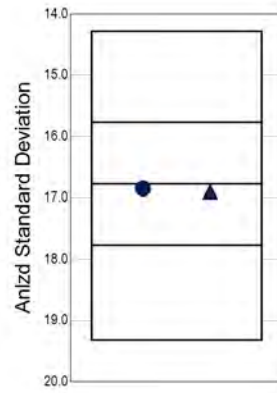
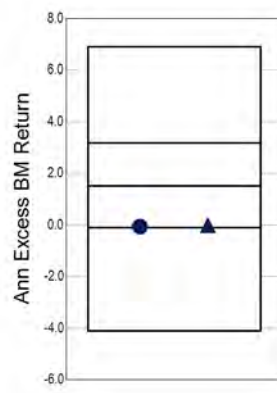
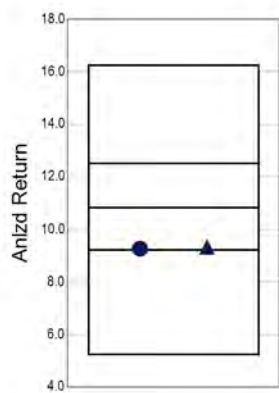
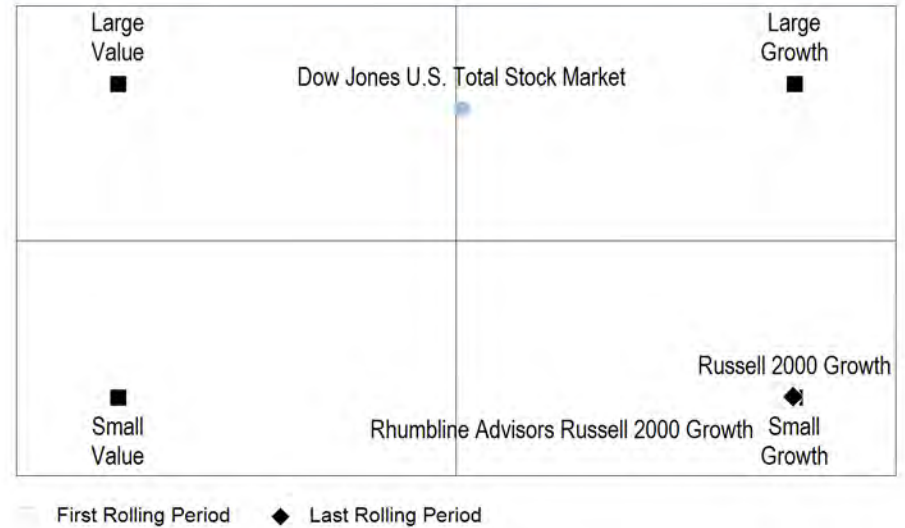


RHUMBLINE ADVISORS RUSSELL 2000 GROWTH

Since Inception Risk Return



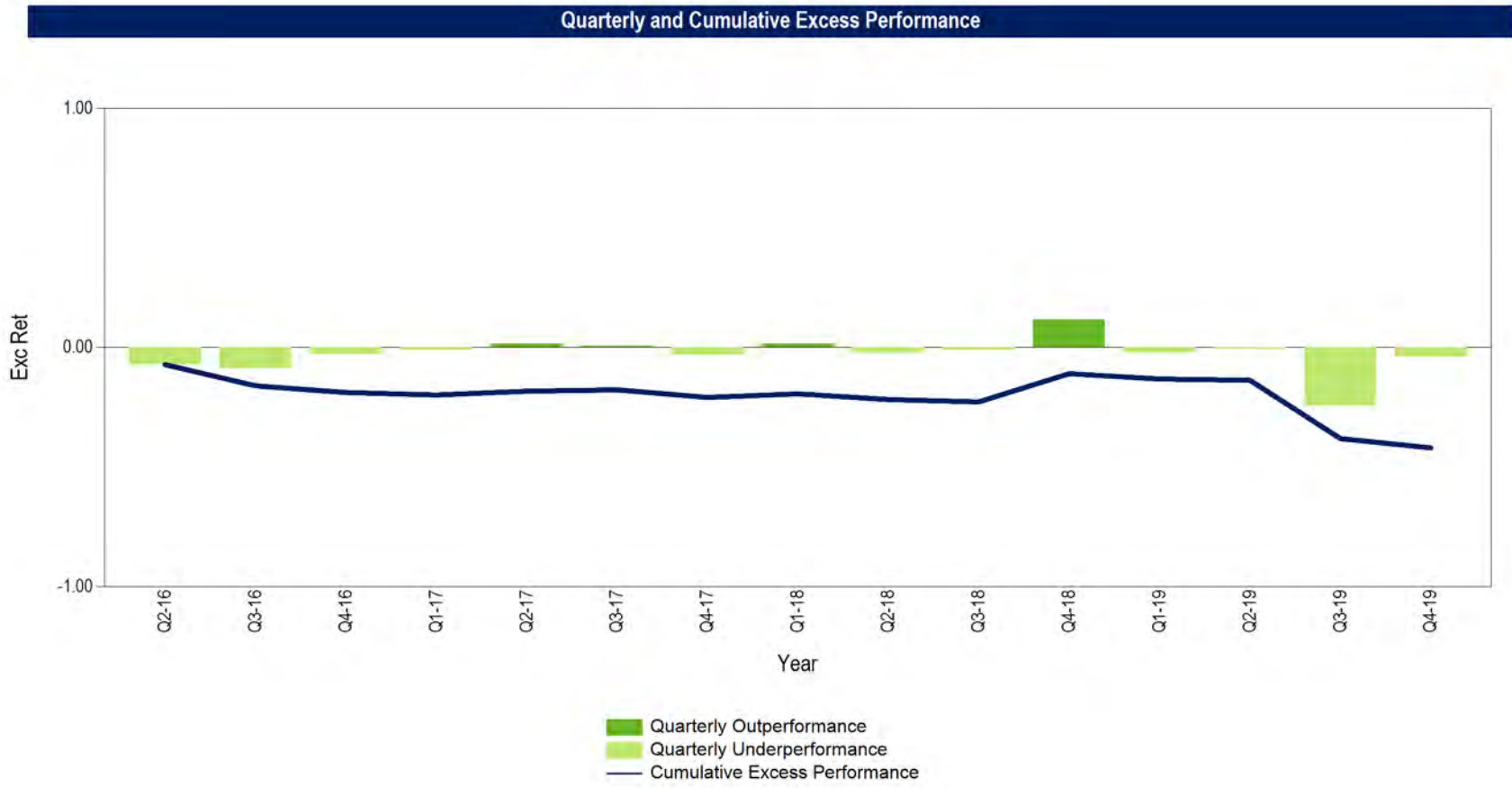
Since Inception Style Map



- Rhumbline Advisors Russell 2000 Growth
- ▲ Russell 2000 Growth
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile

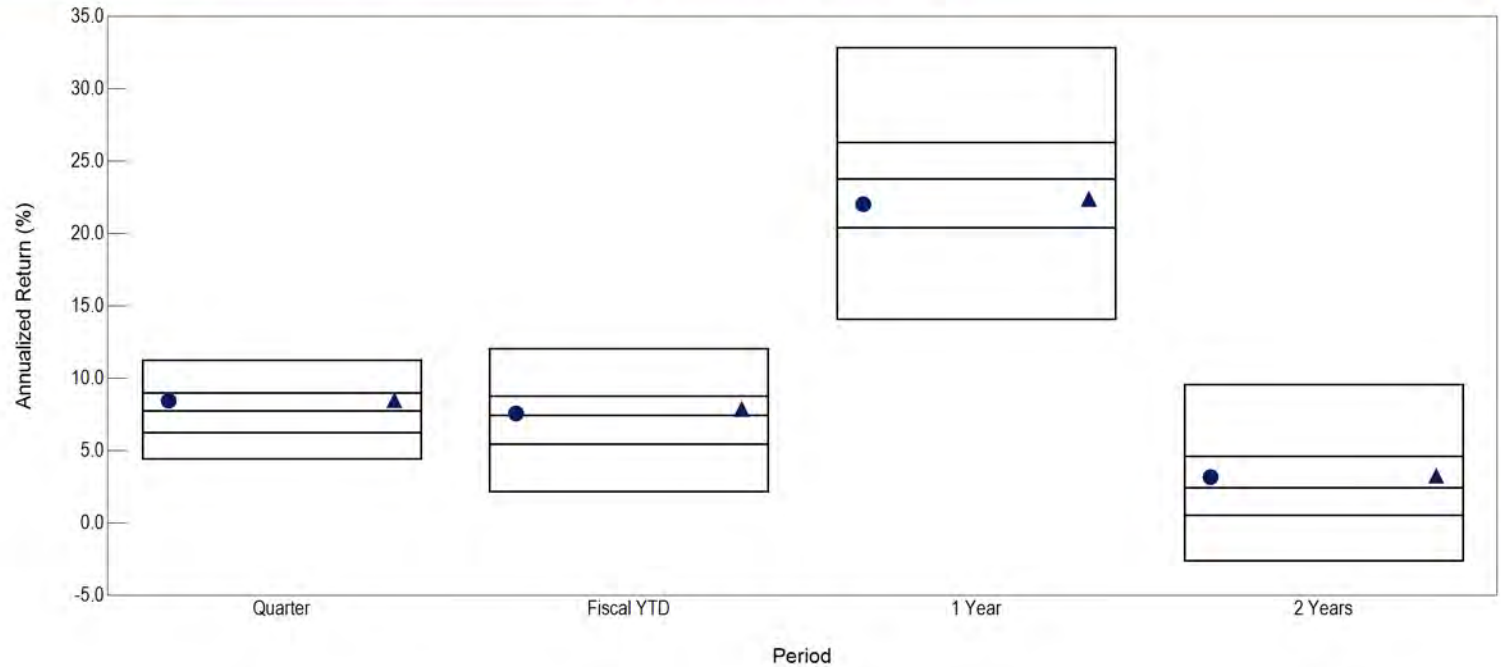


RHUMBLINE ADVISORS RUSSELL 2000 VALUE



RHUMBLINE ADVISORS RUSSELL 2000 VALUE

Rhumbline Advisors Russell 2000 Value vs. eV US Small Cap Value Equity Net

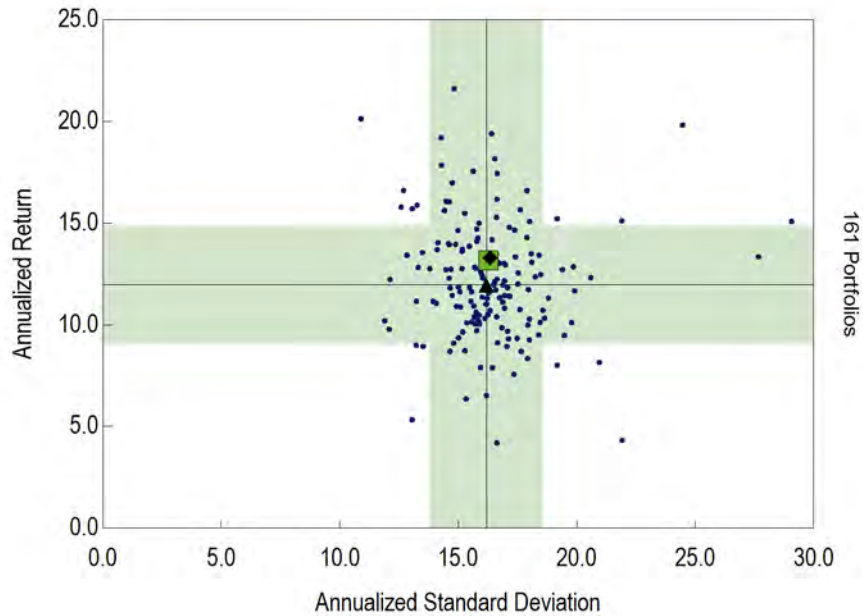


	Return (Rank)							
5th Percentile	11.24		12.05		32.83		9.54	
25th Percentile	9.01		8.81		26.33		4.64	
Median	7.80		7.48		23.79		2.48	
75th Percentile	6.31		5.51		20.44		0.57	
95th Percentile	4.47		2.23		14.11		-2.56	
# of Portfolios	169		169		169		167	
● Rhumbline Advisors Russell 2000 Value	8.45	(33)	7.57	(49)	22.02	(64)	3.18	(39)
▲ Russell 2000 Value	8.49	(33)	7.87	(41)	22.39	(60)	3.27	(38)

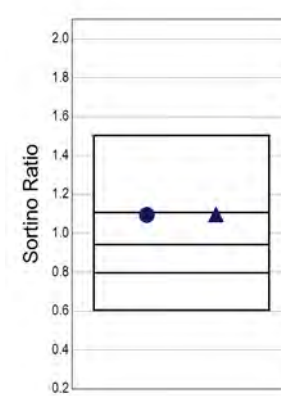
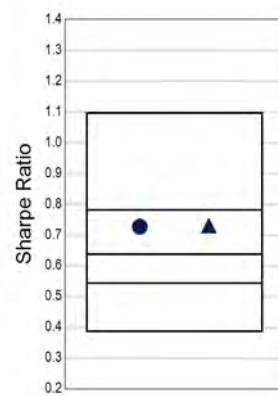
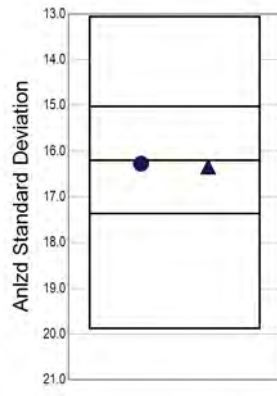
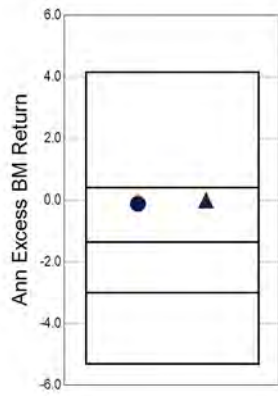
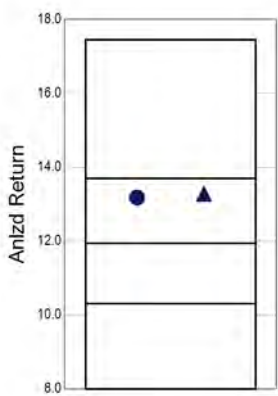
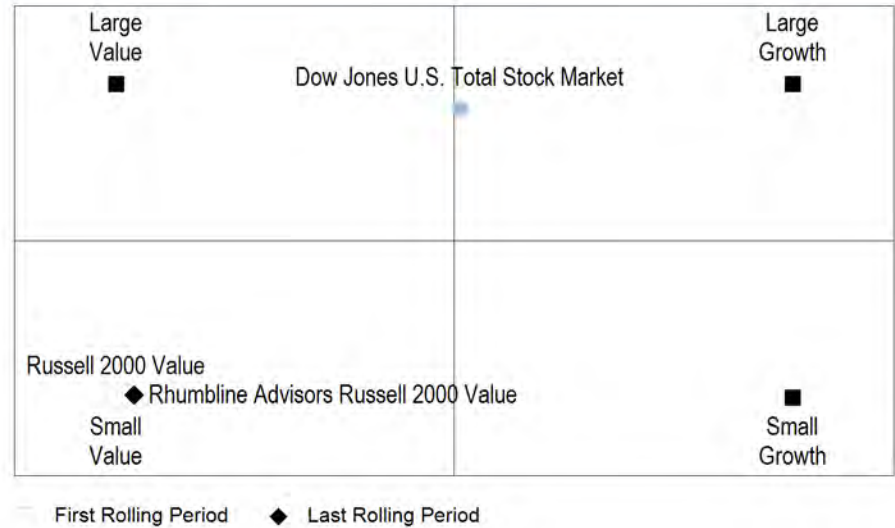


RHUMBLINE ADVISORS RUSSELL 2000 VALUE

Since Inception Risk Return



Since Inception Style Map



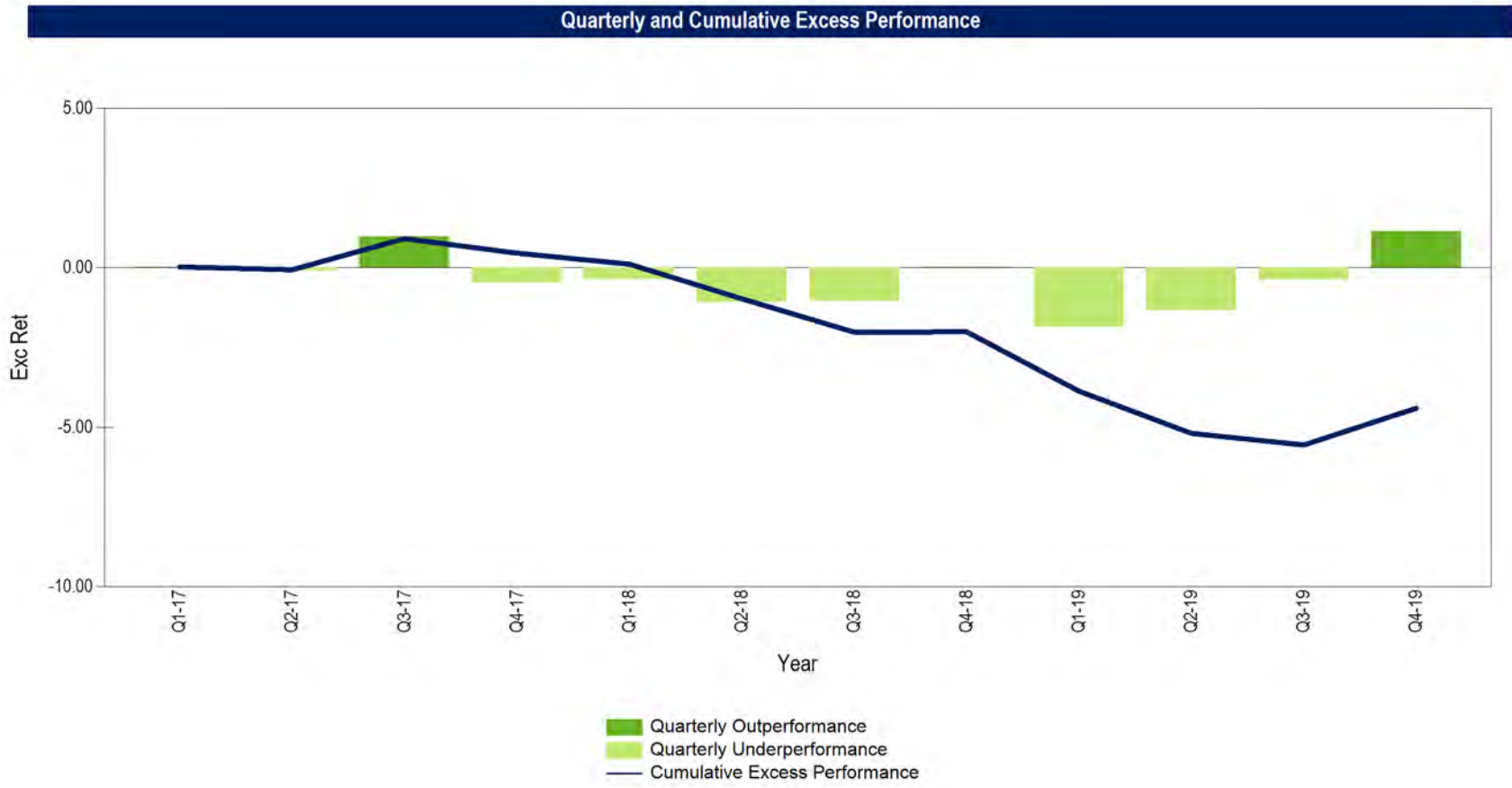
- Rhumbline Advisors Russell 2000 Value
- ▲ Russell 2000 Value
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



NON-U.S. EQUITY MANAGER PERFORMANCE

NEPC, LLC

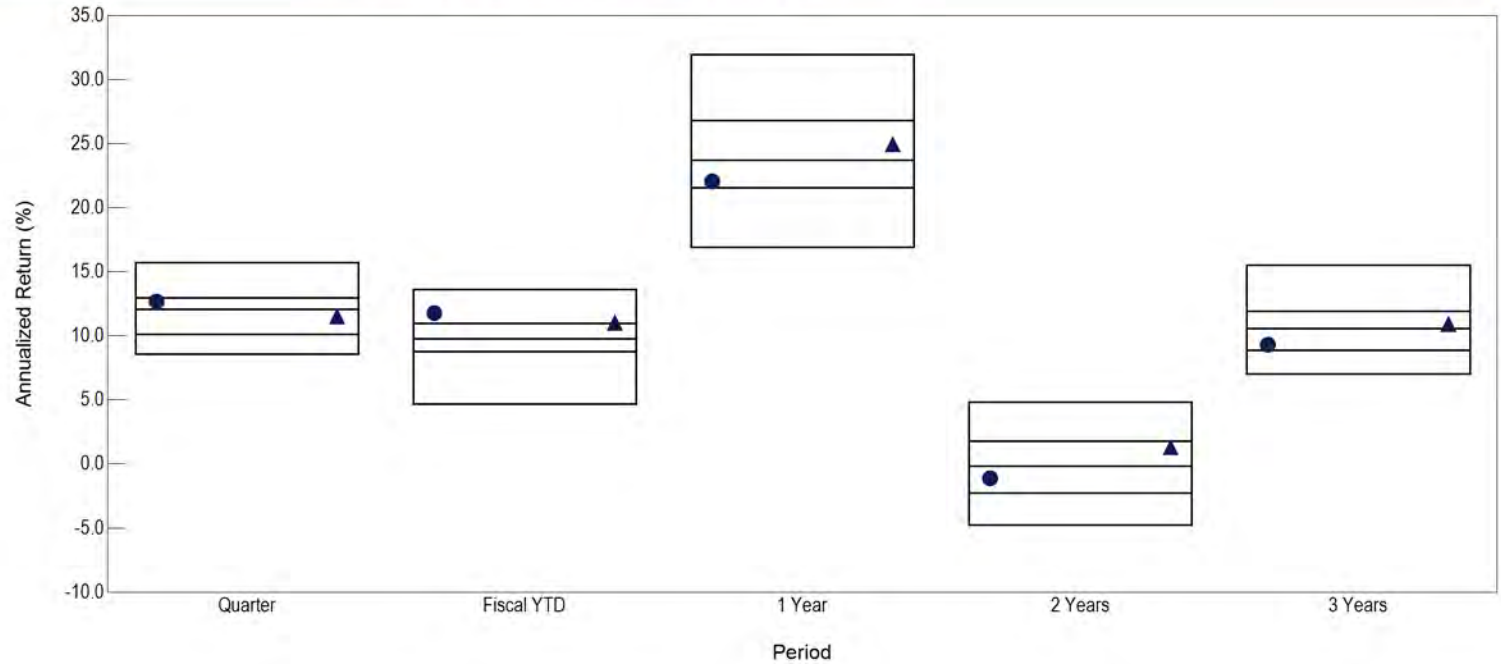
AQR CAPITAL



Los Angeles City Employees' Retirement System

AQR CAPITAL

AQR Capital vs. eV EAFE Small Cap Equity Net



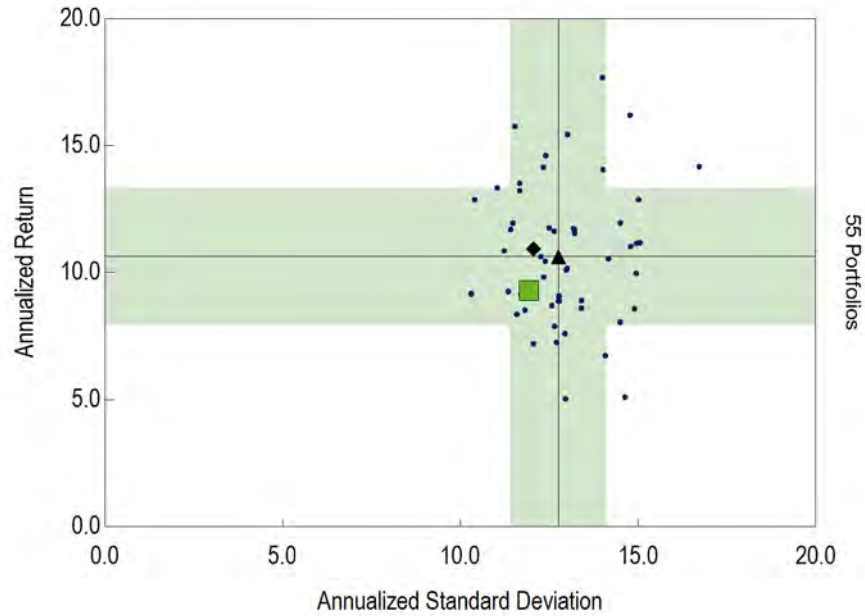
	Return (Rank)									
5th Percentile	15.72		13.60		31.99		4.82		15.53	
25th Percentile	13.00		11.02		26.87		1.81		11.94	
Median	12.10		9.81		23.76		-0.16		10.62	
75th Percentile	10.14		8.79		21.61		-2.22		8.89	
95th Percentile	8.59		4.72		16.97		-4.68		7.06	
# of Portfolios	58		57		57		55		55	
● AQR Capital	12.67	(32)	11.77	(18)	22.06	(69)	-1.13	(60)	9.30	(63)
▲ MSCI EAFE Small Cap	11.52	(61)	11.03	(25)	24.96	(39)	1.30	(28)	10.92	(47)



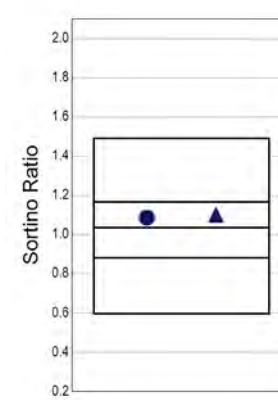
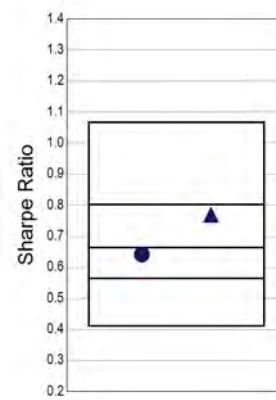
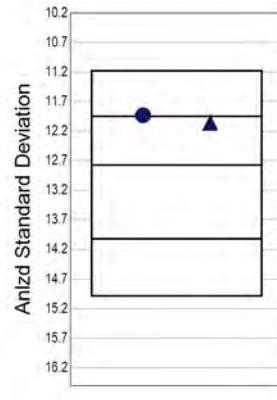
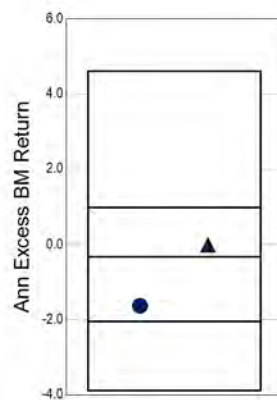
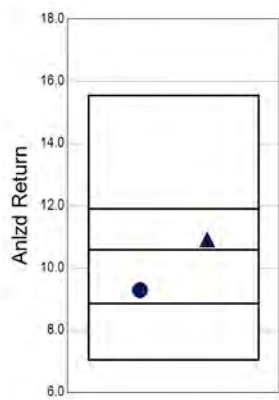
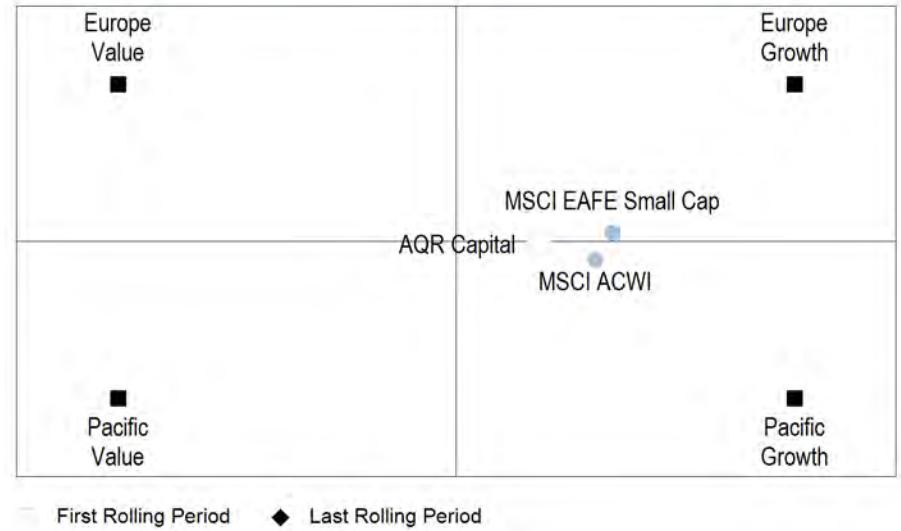
Los Angeles City Employees' Retirement System

AQR CAPITAL

3 Year Risk Return



3 Year Style Map

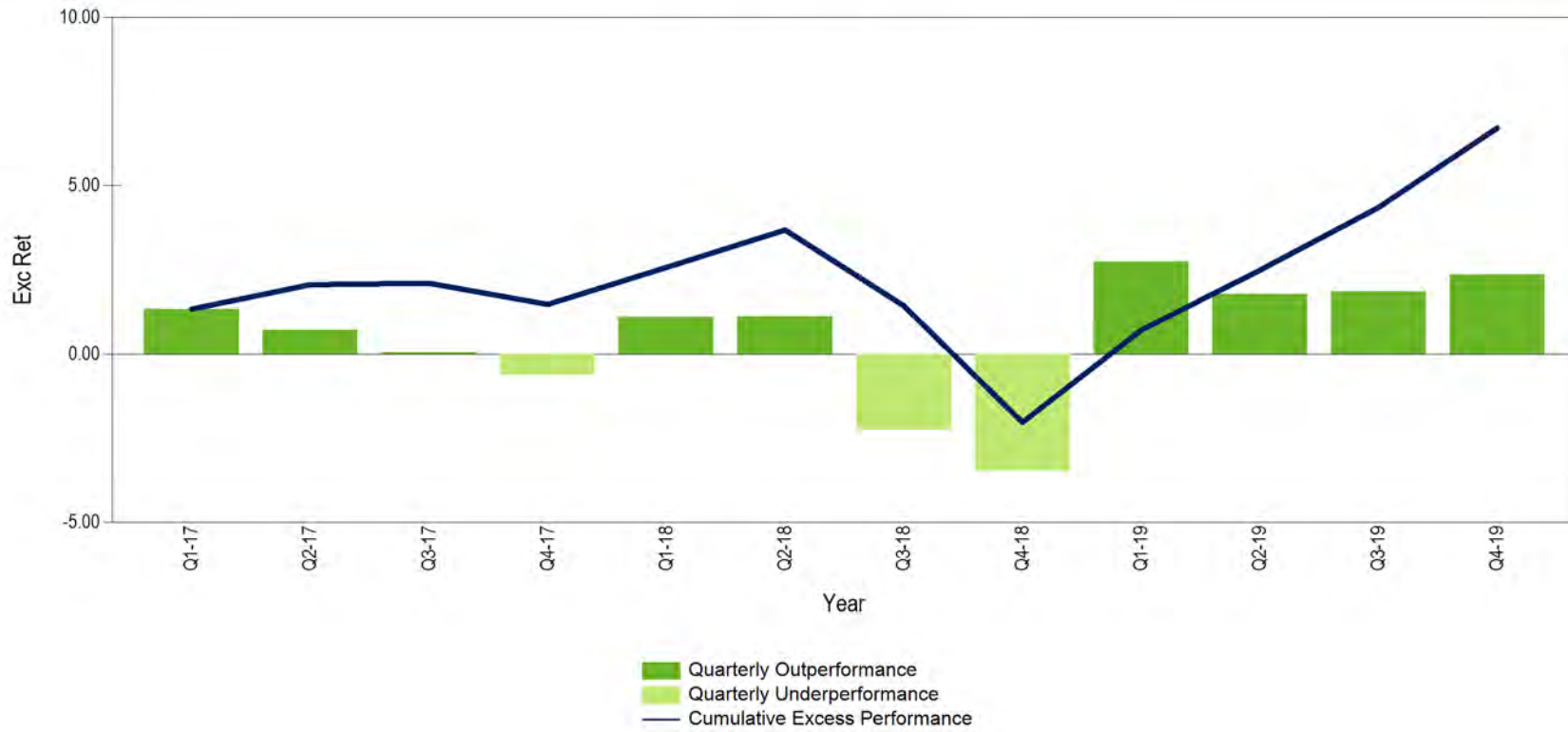


- AQR Capital
- ▲ MSCI EAFE Small Cap
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



BARROW HANLEY

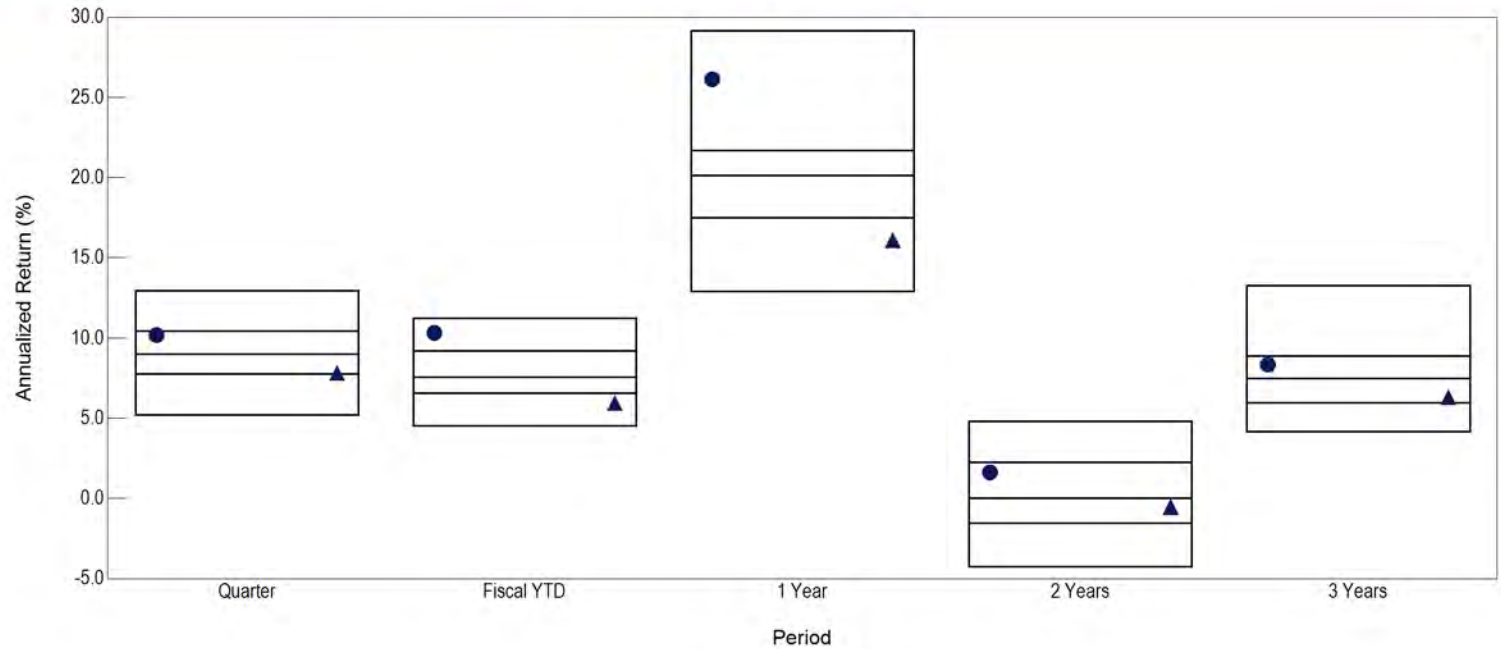
Quarterly and Cumulative Excess Performance



Los Angeles City Employees' Retirement System

BARROW HANLEY

Barrow Hanley vs. eV EAFE Value Equity Net



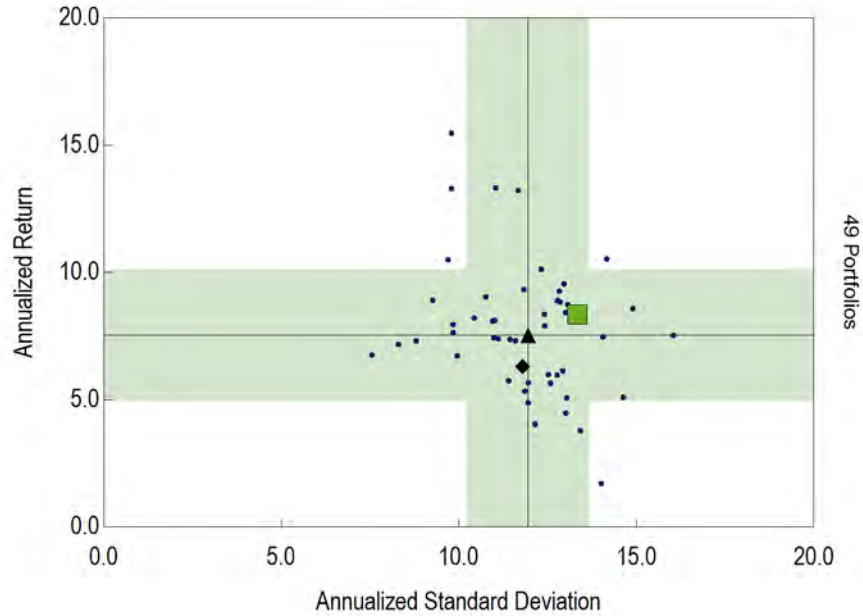
	Return (Rank)									
5th Percentile	12.94		11.24		29.16		4.80		13.27	
25th Percentile	10.45		9.22		21.73		2.30		8.89	
Median	9.04		7.58		20.15		0.05		7.53	
75th Percentile	7.78		6.61		17.53		-1.49		5.99	
95th Percentile	5.23		4.54		12.96		-4.21		4.21	
# of Portfolios	54		54		54		51		49	
● Barrow Hanley	10.18	(30)	10.31	(12)	26.12	(10)	1.62	(34)	8.33	(36)
▲ MSCI EAFE Value	7.82	(75)	5.94	(87)	16.09	(86)	-0.54	(64)	6.31	(71)



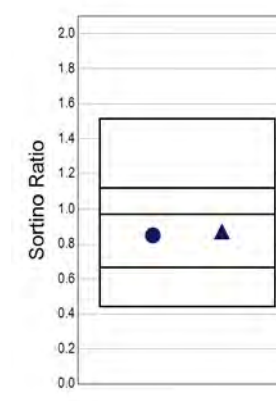
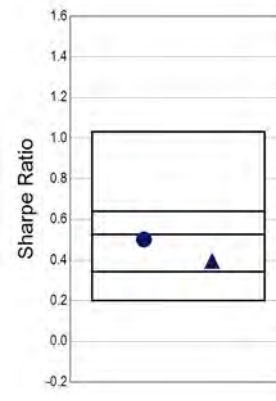
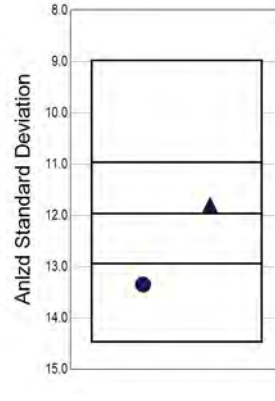
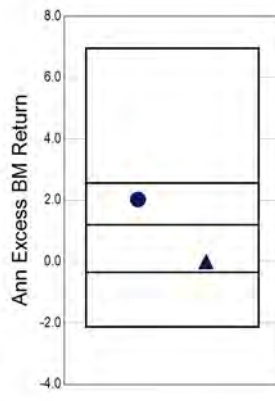
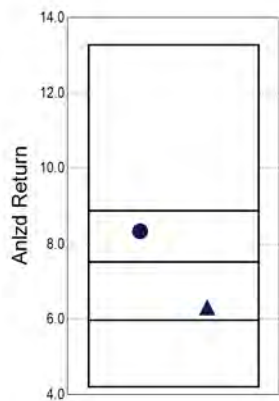
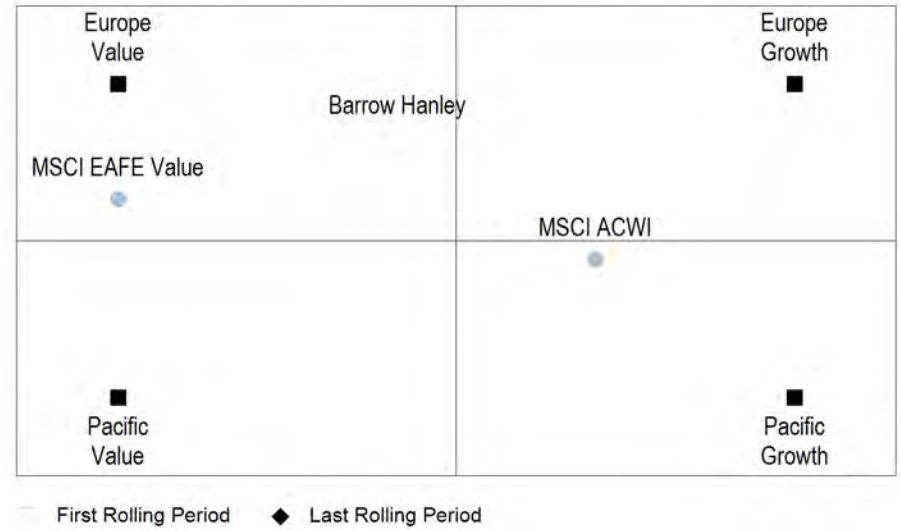
Los Angeles City Employees' Retirement System

BARROW HANLEY

3 Year Risk Return



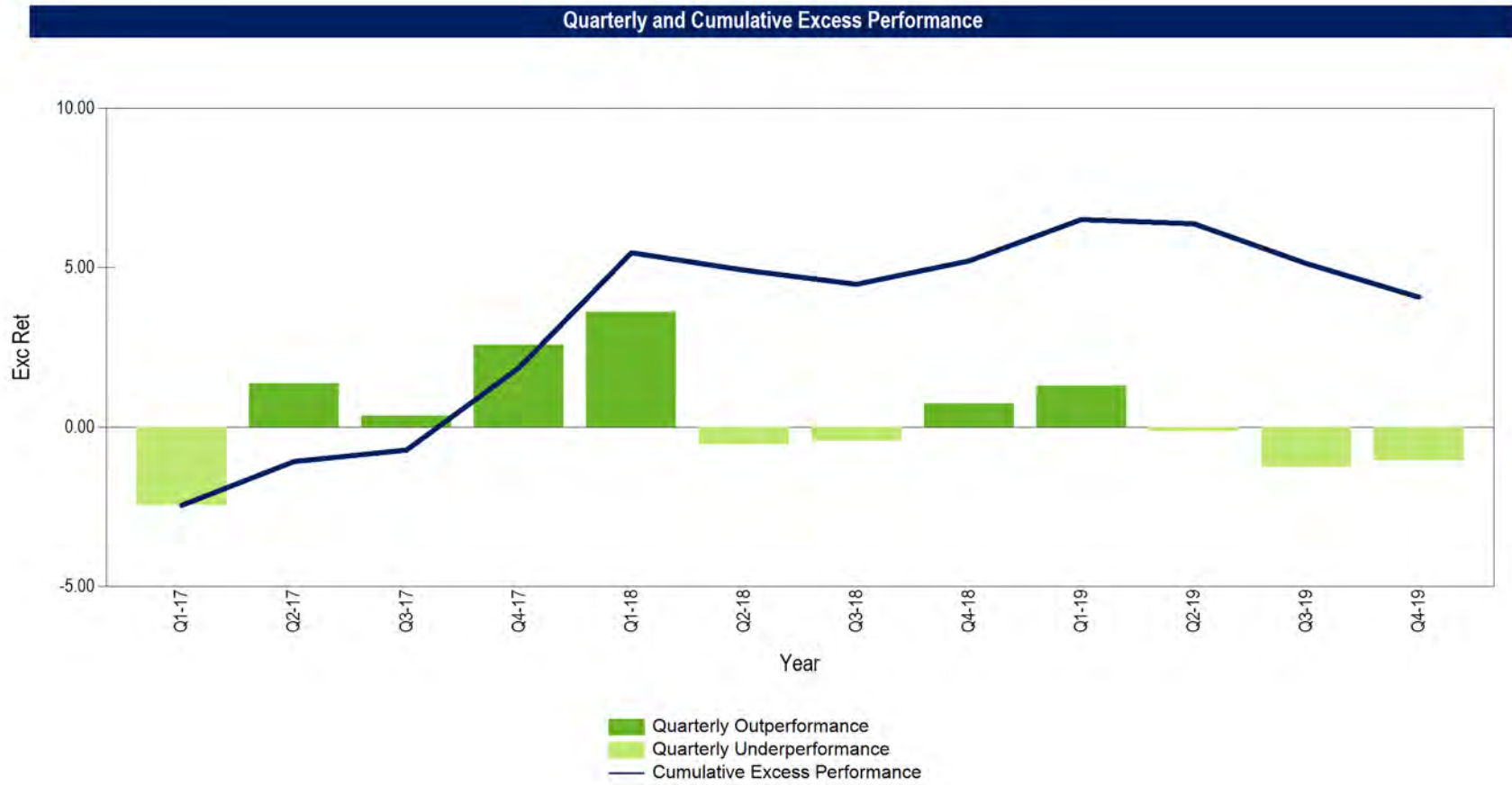
3 Year Style Map



- Barrow Hanley
- ▲ MSCI EAFE Value
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile

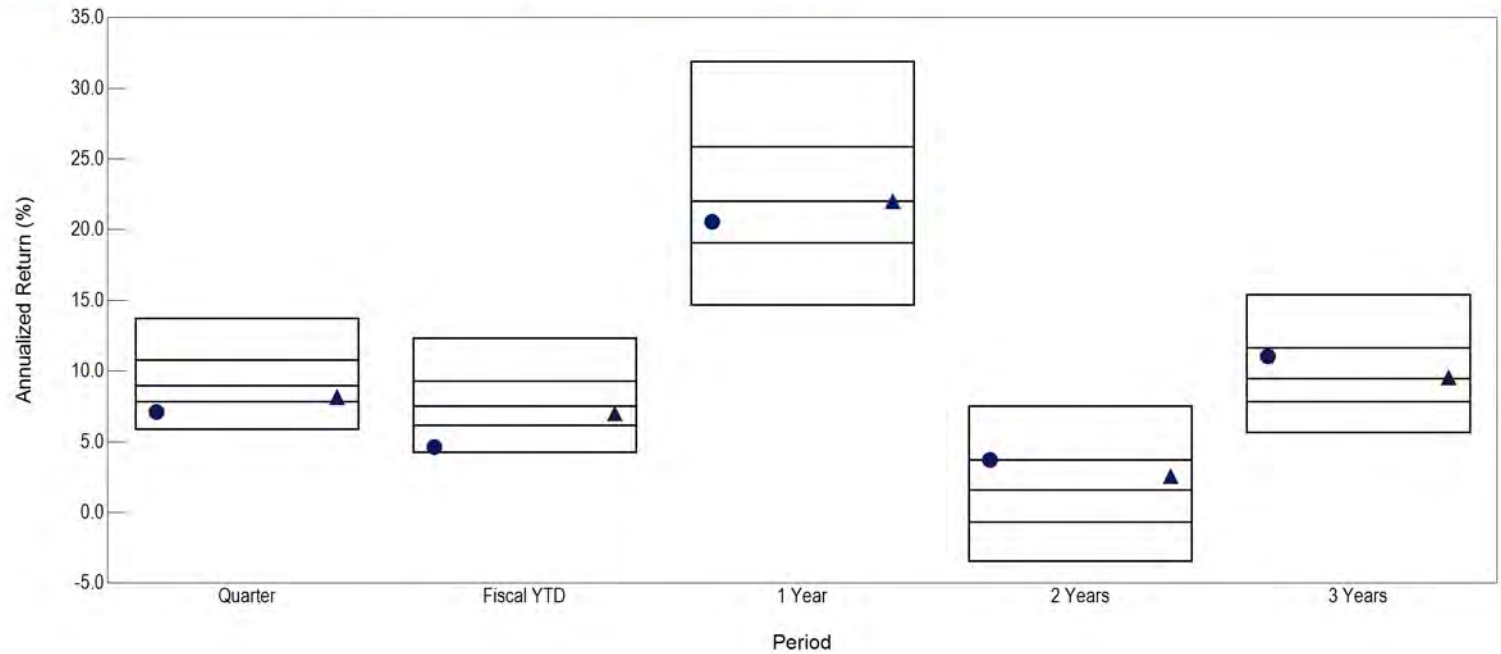


LAZARD ASSET MANAGEMENT



LAZARD ASSET MANAGEMENT

Lazard Asset Management vs. eV All EAFE Equity Net

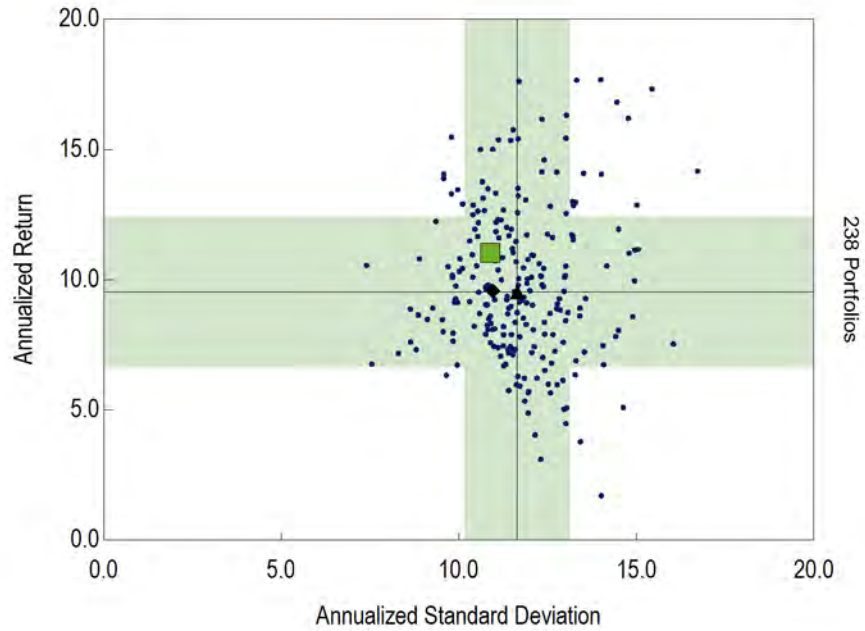


	Return (Rank)									
5th Percentile	13.71		12.34		31.88		7.52		15.38	
25th Percentile	10.82		9.31		25.90		3.76		11.69	
Median	9.03		7.57		22.07		1.65		9.53	
75th Percentile	7.89		6.20		19.10		-0.61		7.89	
95th Percentile	5.92		4.28		14.74		-3.40		5.70	
# of Portfolios	249		247		247		242		238	
● Lazard Asset Management	7.11	(88)	4.63	(94)	20.56	(65)	3.72	(26)	11.03	(31)
▲ MSCI EAFE	8.17	(69)	7.01	(63)	22.01	(51)	2.56	(40)	9.56	(50)

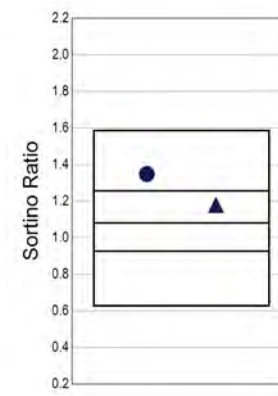
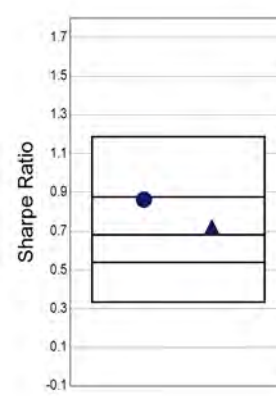
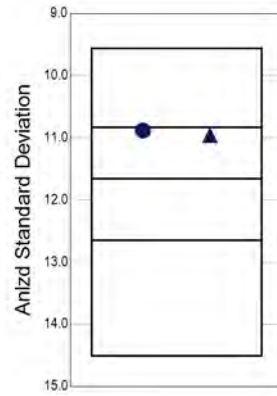
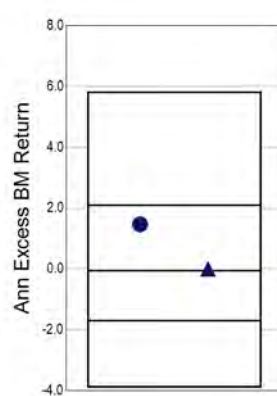
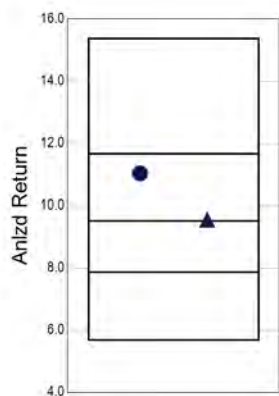
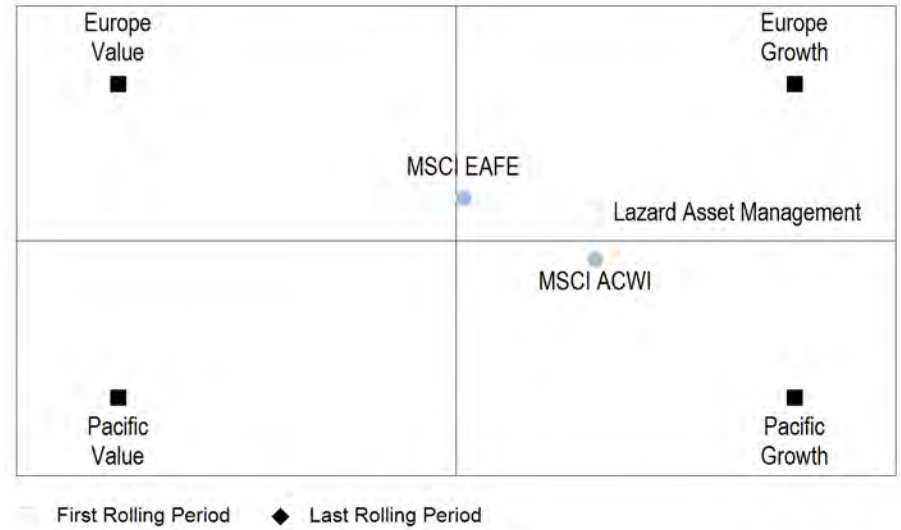


LAZARD ASSET MANAGEMENT

3 Year Risk Return



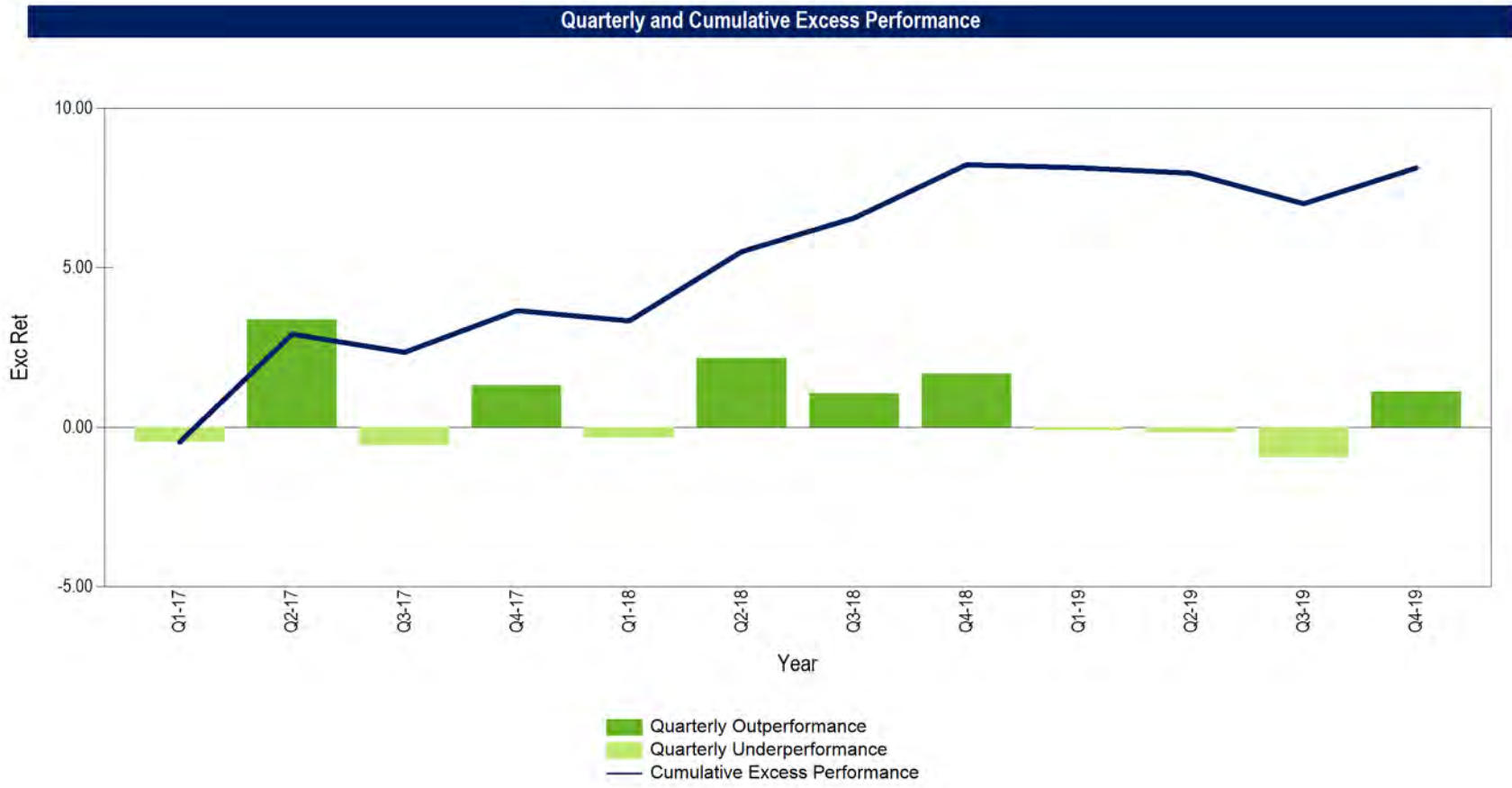
3 Year Style Map



- Lazard Asset Management
- ▲ MSCI EAFE
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile

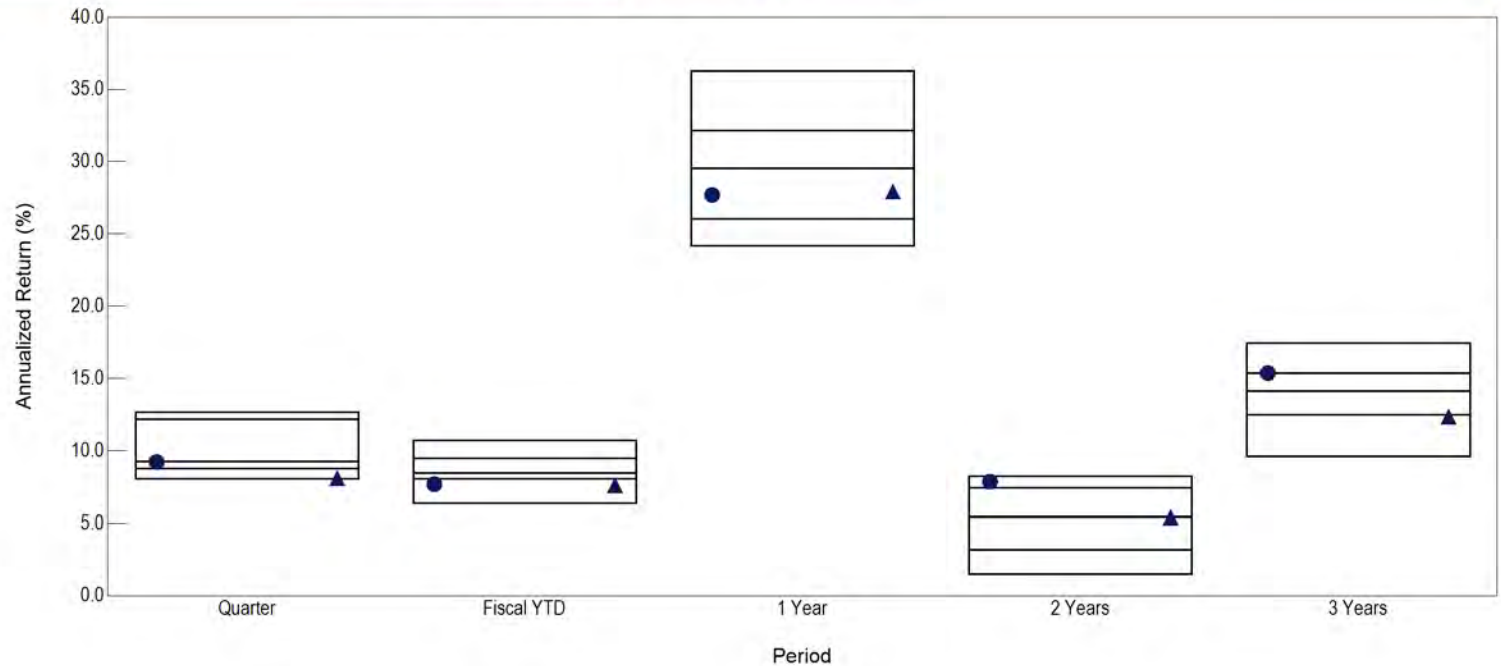


MFS INSTITUTIONAL ADVISORS



MFS INSTITUTIONAL ADVISORS

MFS Institutional Advisors vs. eV EAFE All Cap Growth Net

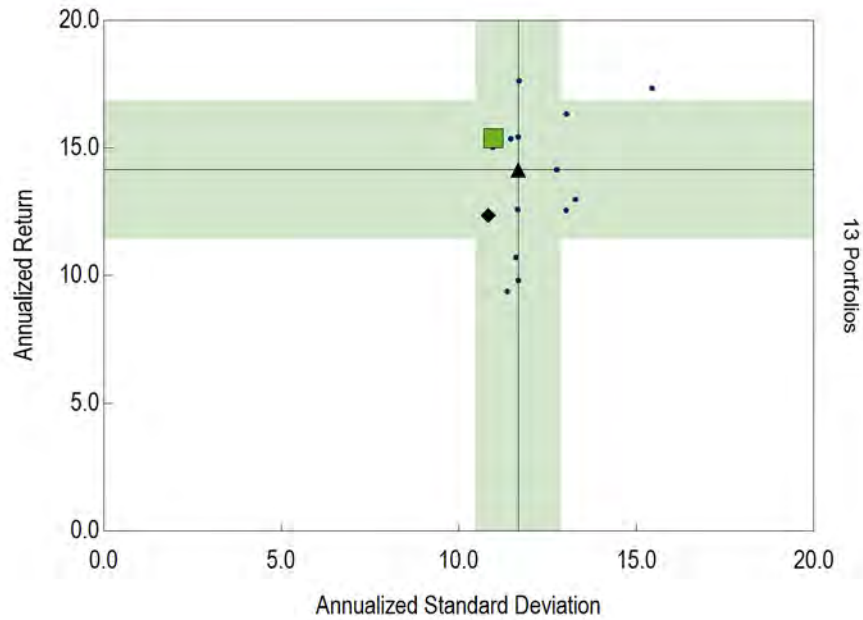


	Quarter		Fiscal YTD		1 Year		2 Years		3 Years	
Return (Rank)										
5th Percentile	12.66		10.70		36.28		8.23		17.44	
25th Percentile	12.19		9.49		32.20		7.45		15.42	
Median	9.27		8.48		29.56		5.47		14.14	
75th Percentile	8.81		8.07		26.09		3.22		12.54	
95th Percentile	8.10		6.41		24.19		1.53		9.62	
# of Portfolios	13		13		13		13		13	
● MFS Institutional Advisors	9.21	(53)	7.67	(78)	27.69	(64)	7.85	(8)	15.36	(32)
▲ MSCI World ex USA Growth NR USD	8.09	(96)	7.60	(79)	27.92	(64)	5.41	(53)	12.34	(76)

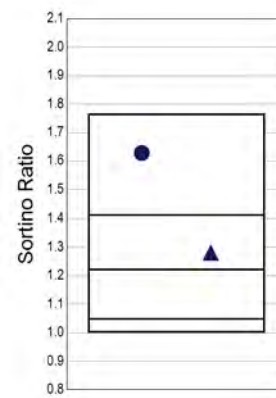
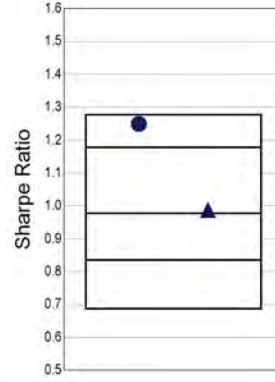
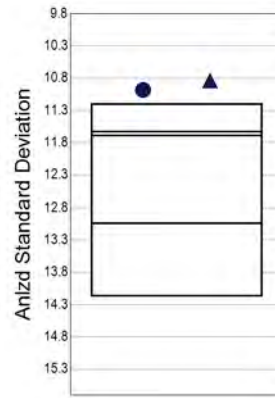
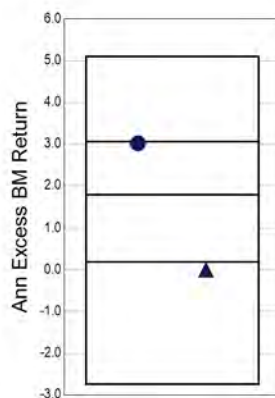
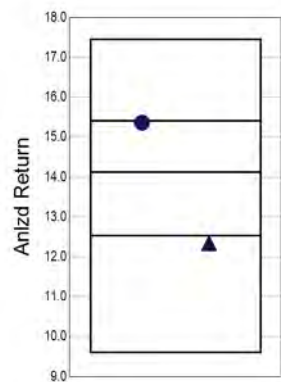
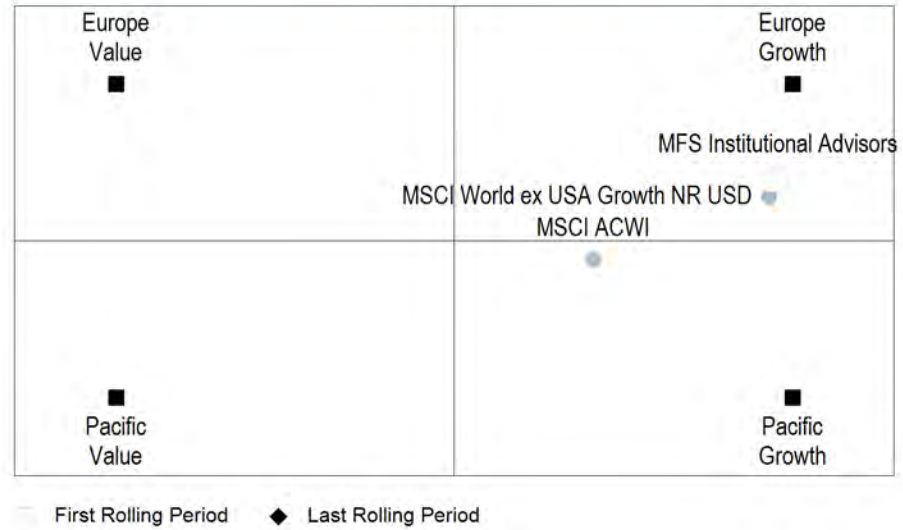


MFS INSTITUTIONAL ADVISORS

3 Year Risk Return



3 Year Style Map



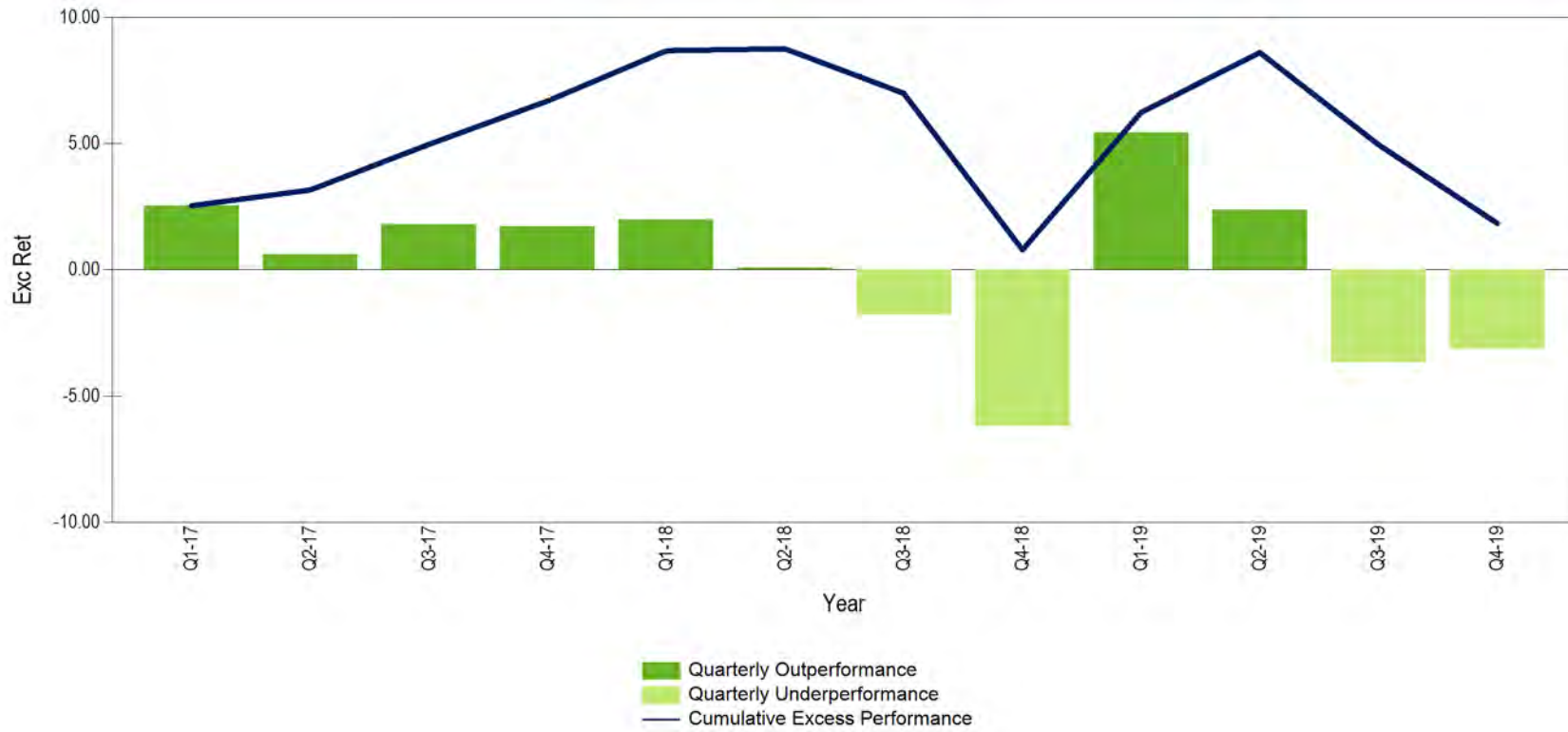
- MFS Institutional Advisors
- ▲ MSCI World ex USA Growth NR USD
- ◻ 5th to 25th Percentile
- ◻ 25th to Median
- ◻ Median to 75th Percentile
- ◻ 75th to 95th Percentile



Los Angeles City Employees' Retirement System

OBERWEIS ASSET MGMT

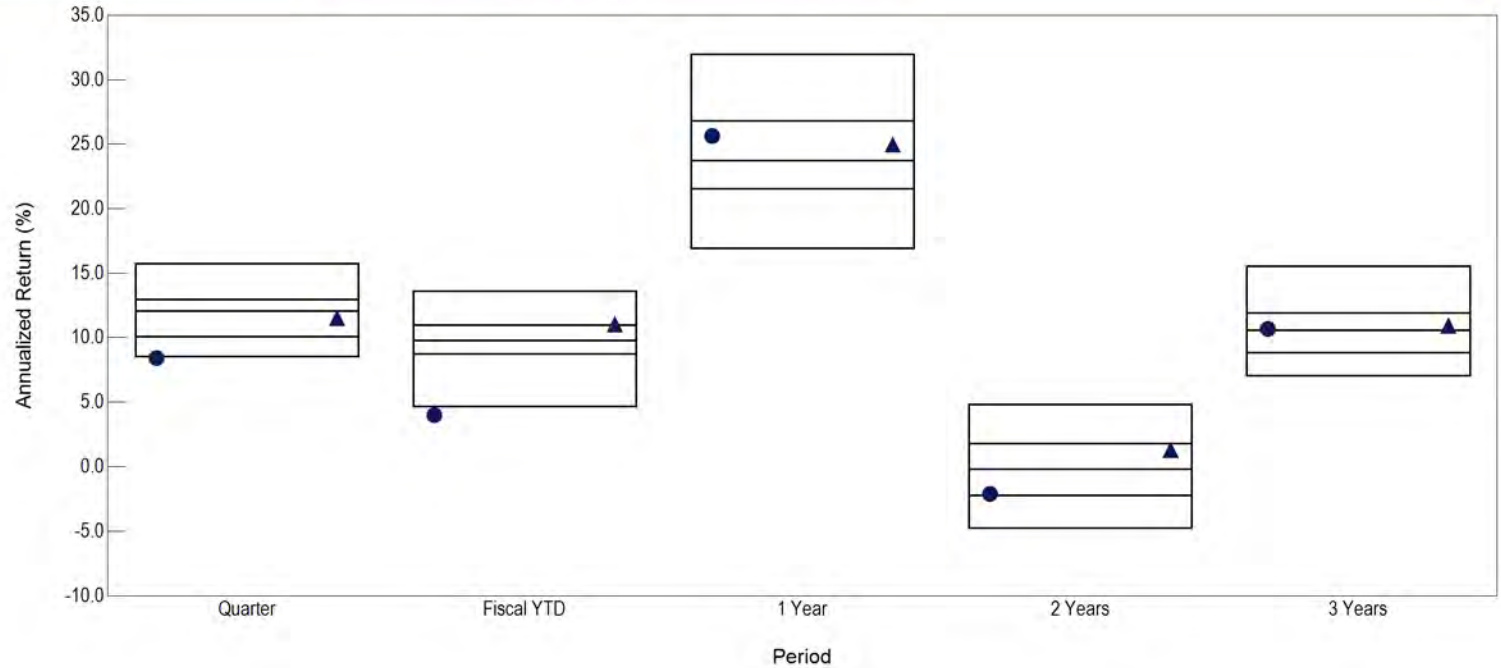
Quarterly and Cumulative Excess Performance



Los Angeles City Employees' Retirement System

OBERWEIS ASSET MGMT

Oberweis Asset Mgmt vs. eV EAFE Small Cap Equity Net



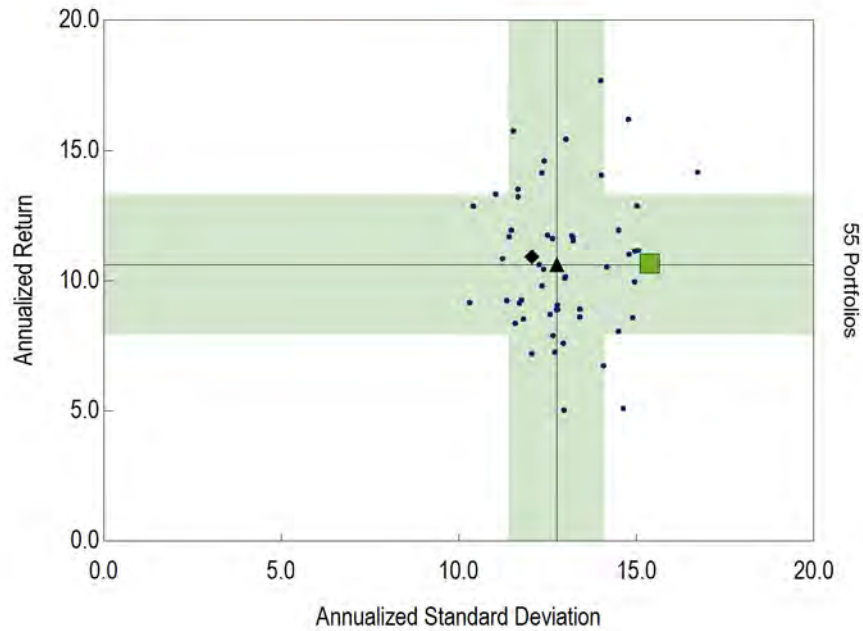
	Return (Rank)									
5th Percentile	15.72		13.60		31.99		4.82		15.53	
25th Percentile	13.00		11.02		26.87		1.81		11.94	
Median	12.10		9.81		23.76		-0.16		10.62	
75th Percentile	10.14		8.79		21.61		-2.22		8.89	
95th Percentile	8.59		4.72		16.97		-4.68		7.06	
# of Portfolios	58		57		57		55		55	
● Oberweis Asset Mgmt	8.41	(97)	3.98	(98)	25.64	(36)	-2.13	(74)	10.66	(50)
▲ MSCI EAFE Small Cap	11.52	(61)	11.03	(25)	24.96	(39)	1.30	(28)	10.92	(47)



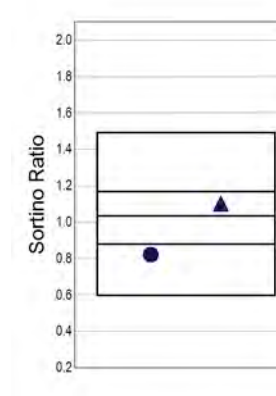
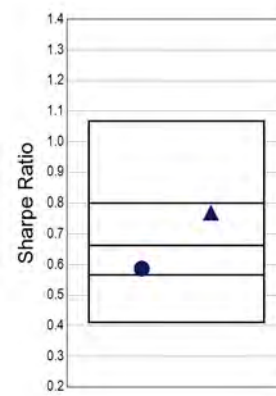
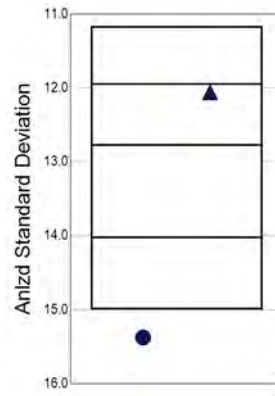
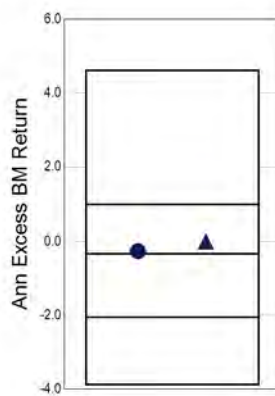
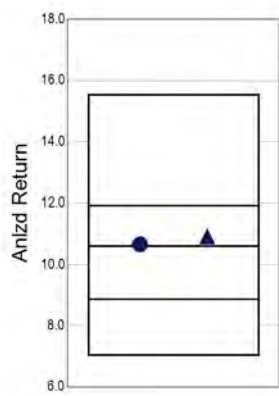
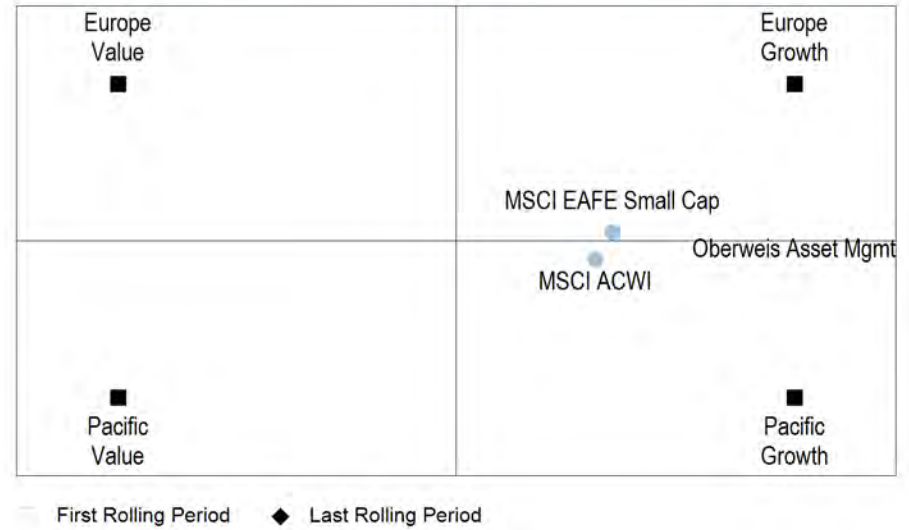
Los Angeles City Employees' Retirement System

OBERWEIS ASSET MGMT

3 Year Risk Return



3 Year Style Map



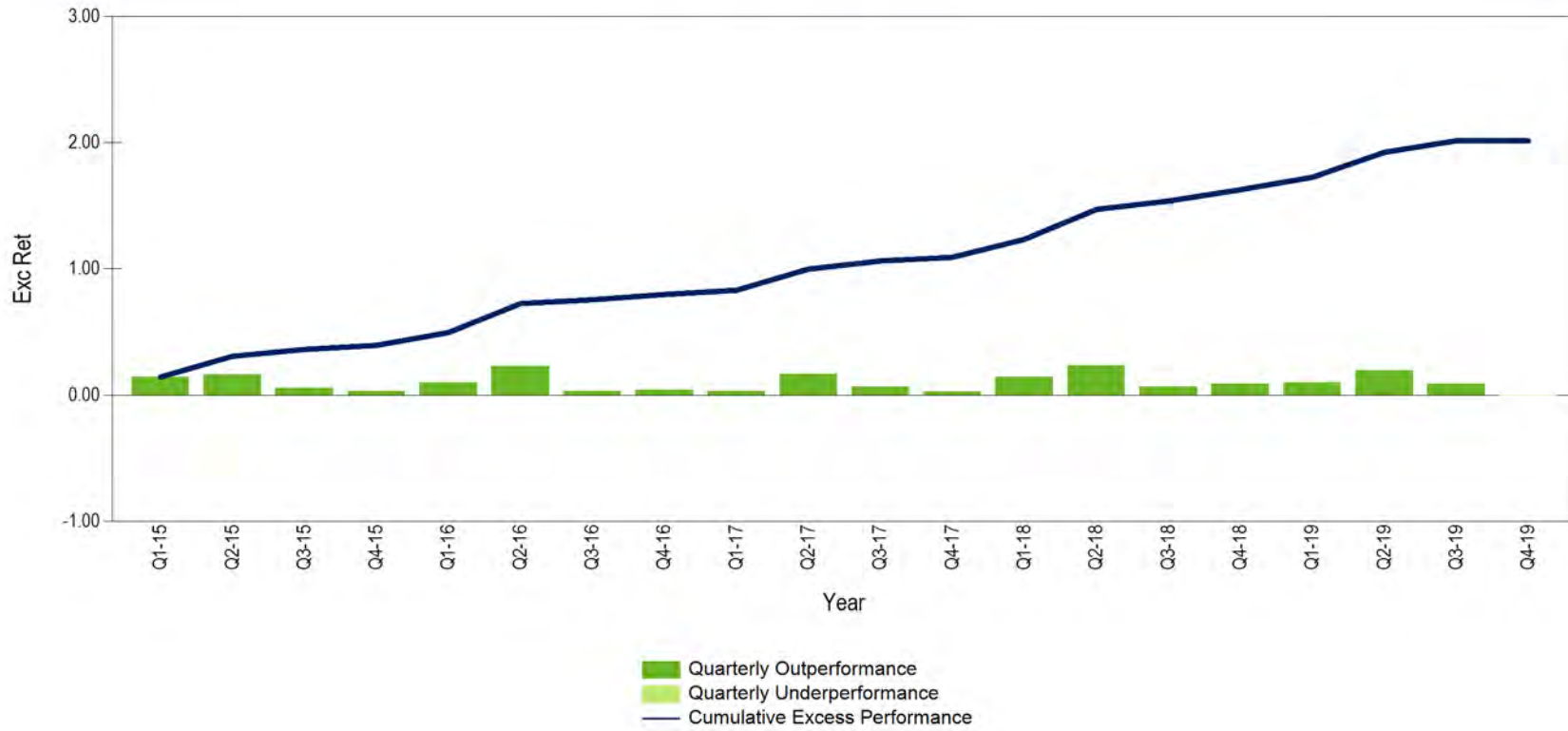
- Oberweis Asset Mgmt
- ▲ MSCI EAFE Small Cap
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



Los Angeles City Employees' Retirement System

SSGA WORLD EX US IMI

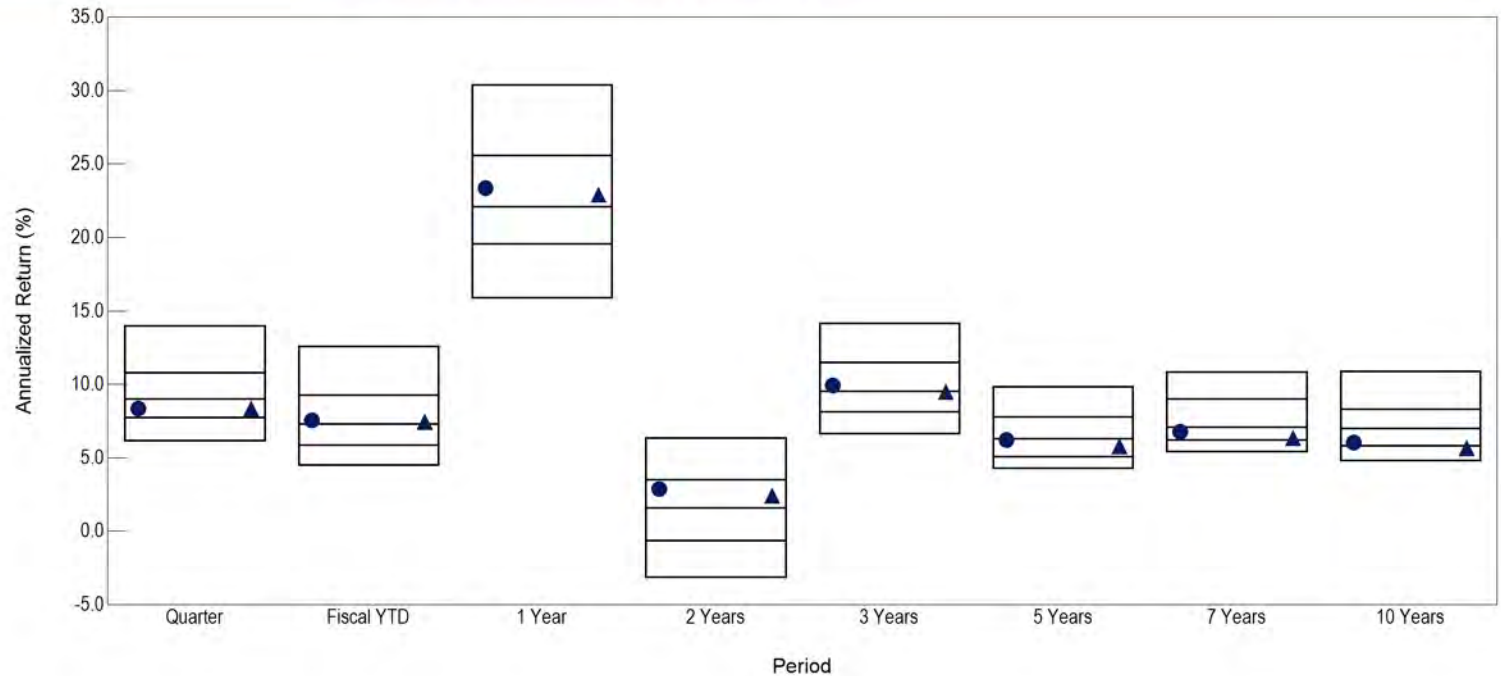
Quarterly and Cumulative Excess Performance



Los Angeles City Employees' Retirement System

SSGA WORLD EX US IMI

SSgA World ex US IMI vs. eV EAFE Core Equity Net



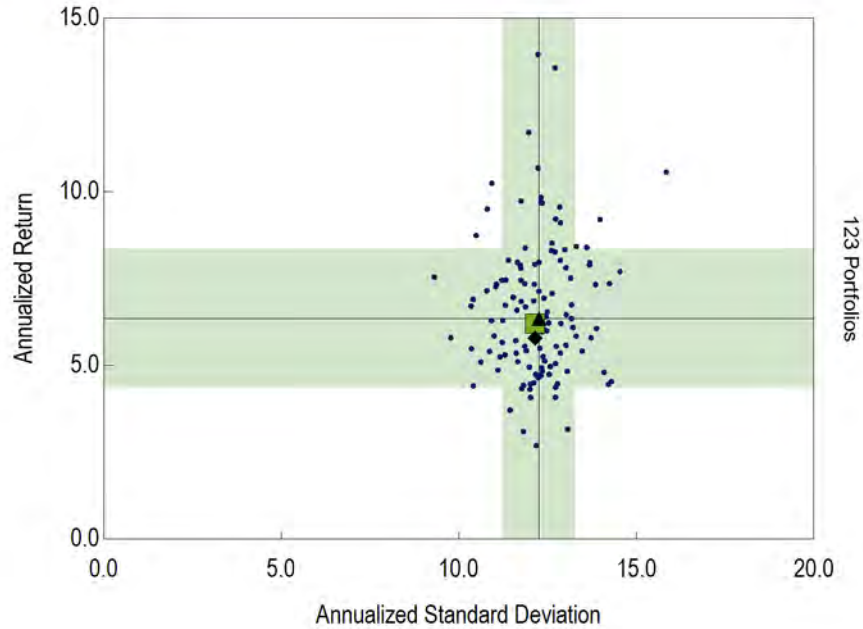
	Return (Rank)															
5th Percentile	13.98	12.58	30.39	6.36	14.14	9.83	10.85	10.89								
25th Percentile	10.83	9.33	25.62	3.56	11.55	7.85	9.06	8.34								
Median	9.06	7.37	22.15	1.64	9.56	6.35	7.14	7.06								
75th Percentile	7.79	5.89	19.60	-0.60	8.17	5.12	6.28	5.86								
95th Percentile	6.23	4.57	15.94	-3.09	6.70	4.32	5.48	4.85								
# of Portfolios	149	147	147	145	144	123	106	86								
● SSGA World ex US IMI	8.35	(65)	7.55	(49)	23.36	(40)	2.87	(34)	9.93	(47)	6.21	(54)	6.77	(61)	6.04	(72)
▲ MSCI World ex USA IMI NR USD	8.36	(65)	7.45	(49)	22.91	(45)	2.40	(38)	9.49	(52)	5.79	(62)	6.35	(73)	5.66	(80)



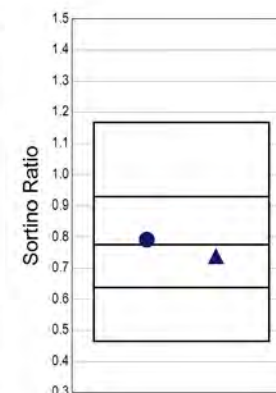
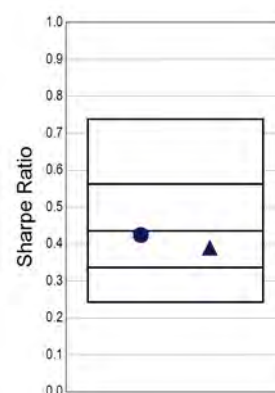
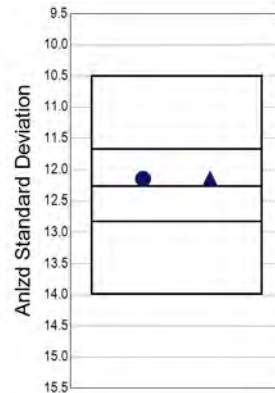
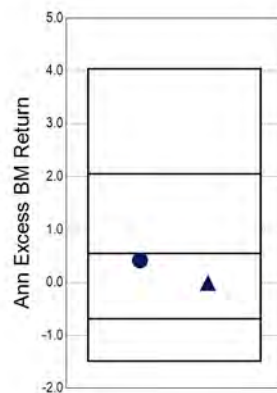
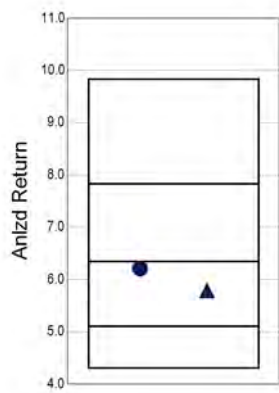
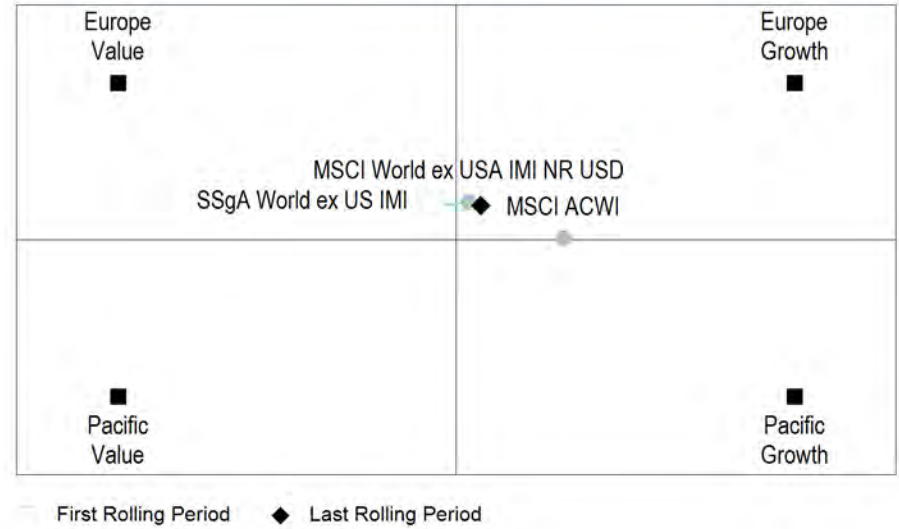
Los Angeles City Employees' Retirement System

SSGA WORLD EX US IMI

5 Year Risk Return



5 Year Style Map

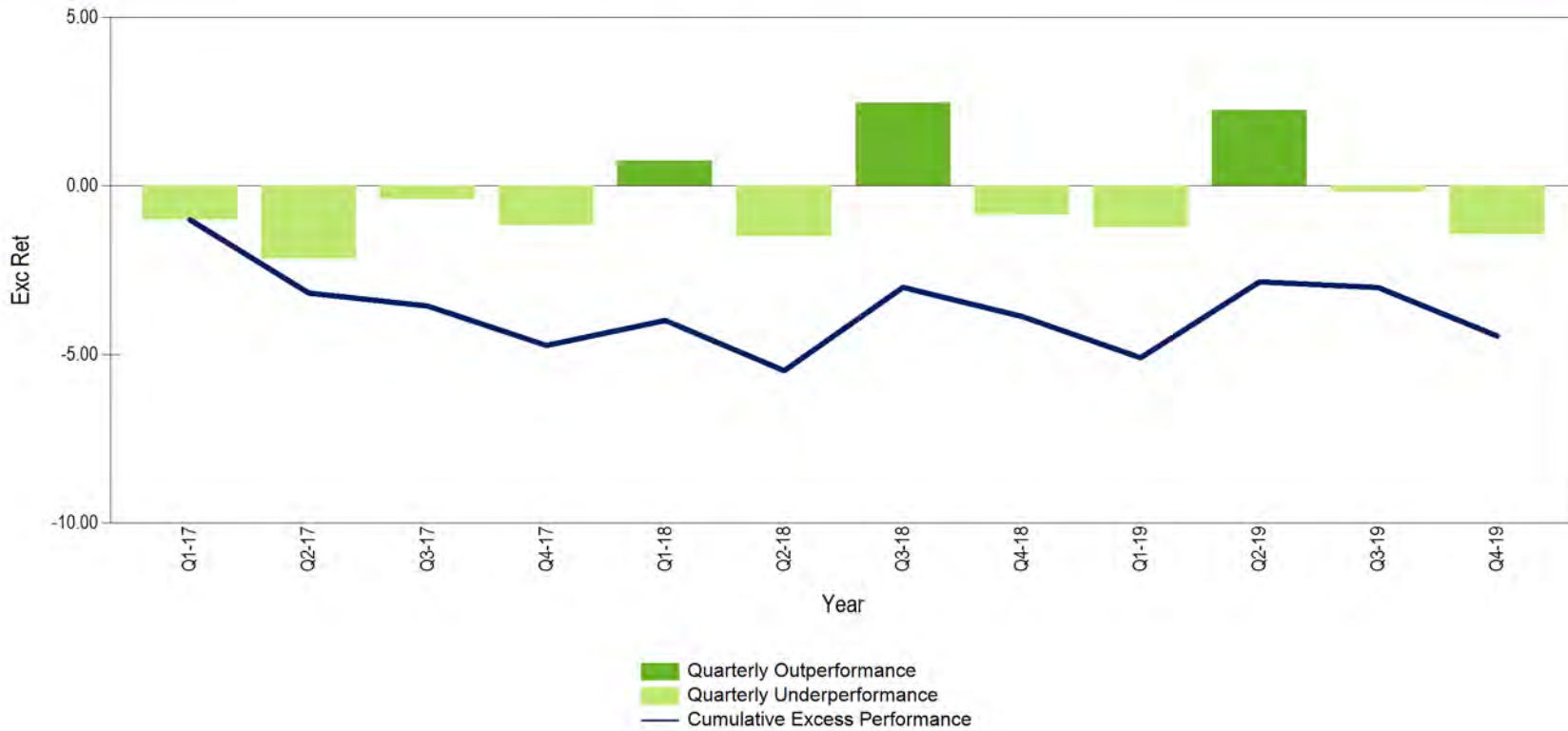


- SSGA World ex US IMI
- ▲ MSCI World ex USA IMI NR USD
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



AXIOM EMERGING MARKETS

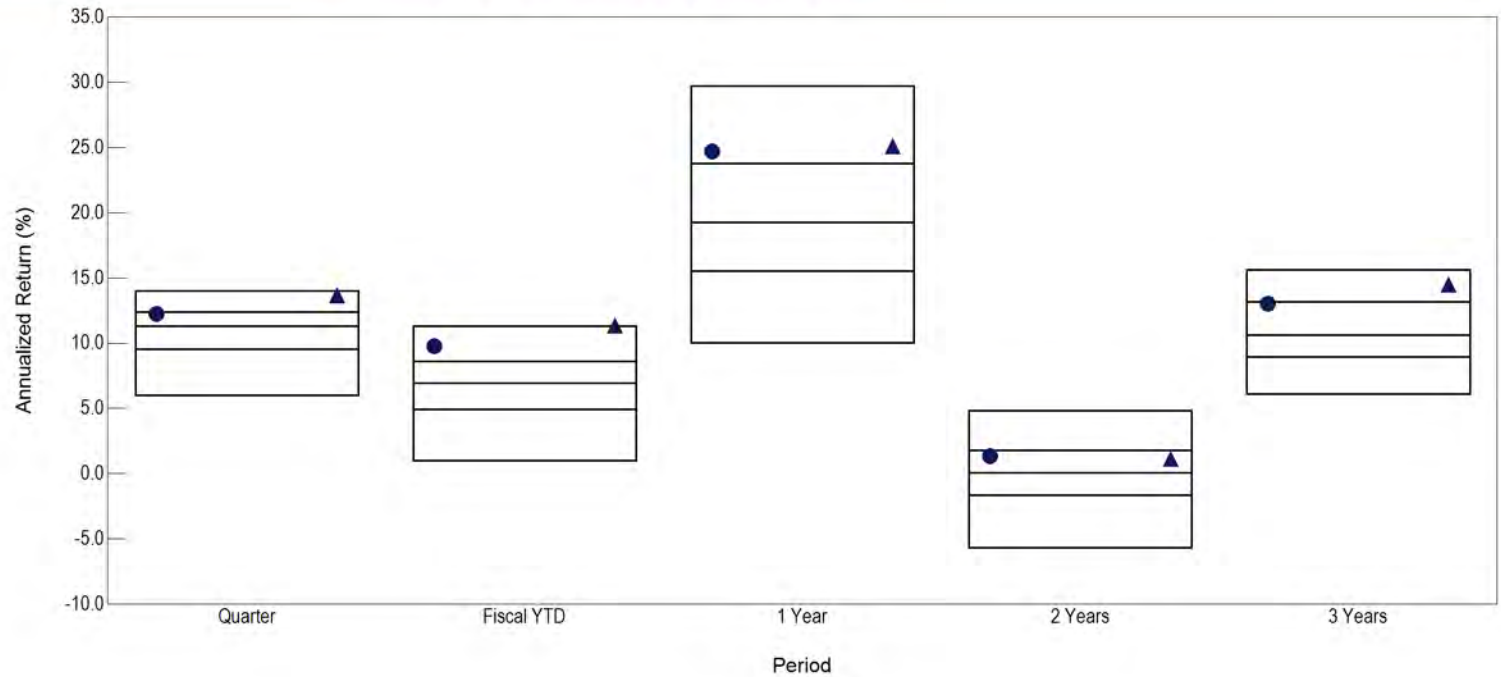
Quarterly and Cumulative Excess Performance



Los Angeles City Employees' Retirement System

AXIOM EMERGING MARKETS

Axiom Emerging Markets vs. eV Emg Mkts Equity Net

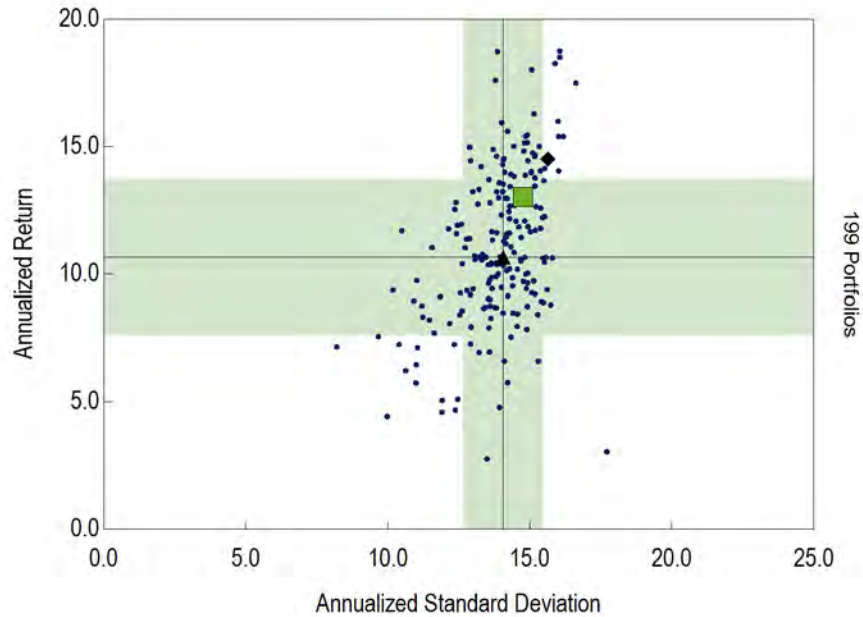


	Return (Rank)									
5th Percentile	14.00		11.32		29.70		4.81		15.63	
25th Percentile	12.43		8.66		23.82		1.83		13.22	
Median	11.37		7.00		19.28		0.09		10.66	
75th Percentile	9.60		4.98		15.56		-1.62		9.01	
95th Percentile	6.03		1.03		10.05		-5.64		6.17	
# of Portfolios	218		217		216		207		199	
● Axiom Emerging Markets	12.24	(27)	9.77	(16)	24.70	(21)	1.34	(32)	13.02	(27)
▲ MSCI Emerging Markets Growth NR USD	13.68	(9)	11.37	(5)	25.10	(20)	1.12	(34)	14.50	(14)

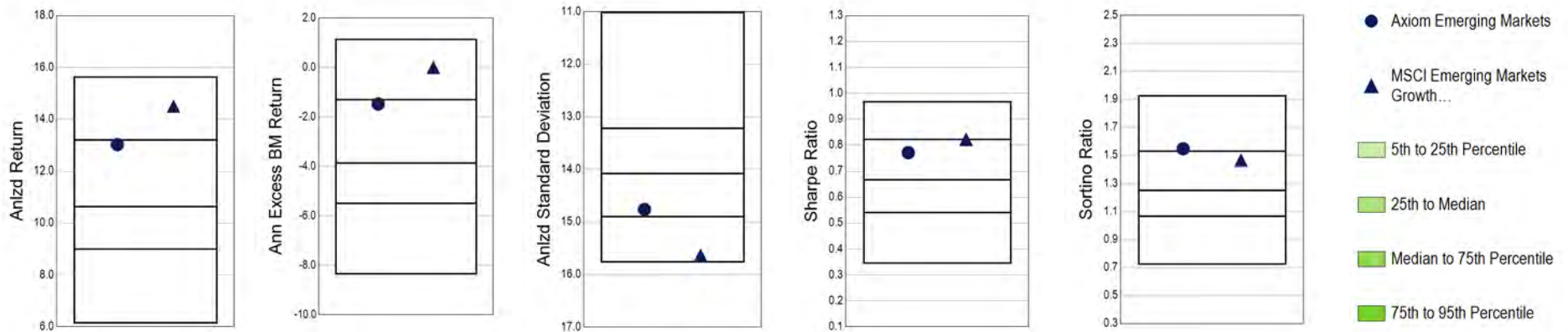


AXIOM EMERGING MARKETS

3 Year Risk Return



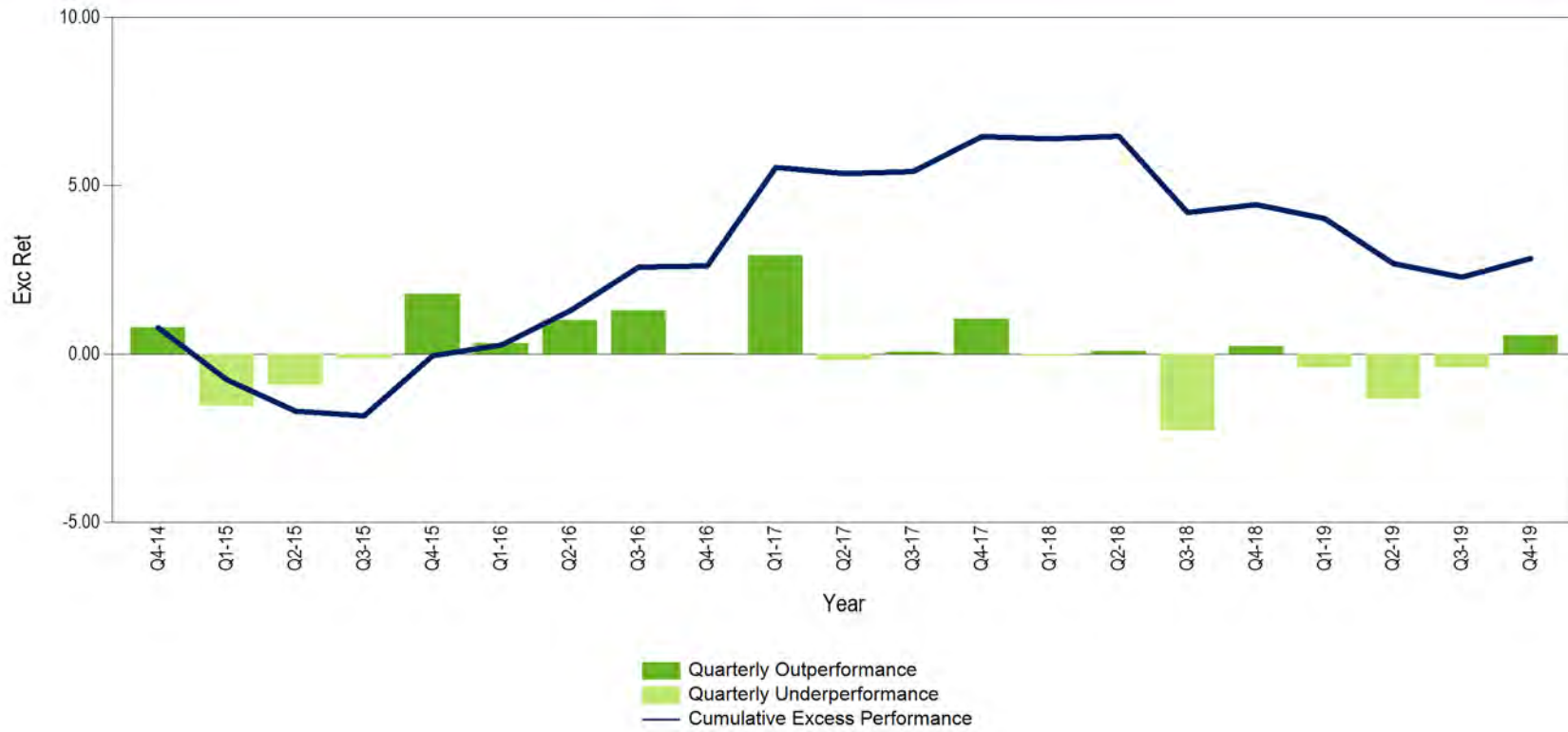
3 Year Style Map



Los Angeles City Employees' Retirement System

DFA EMERGING MARKETS

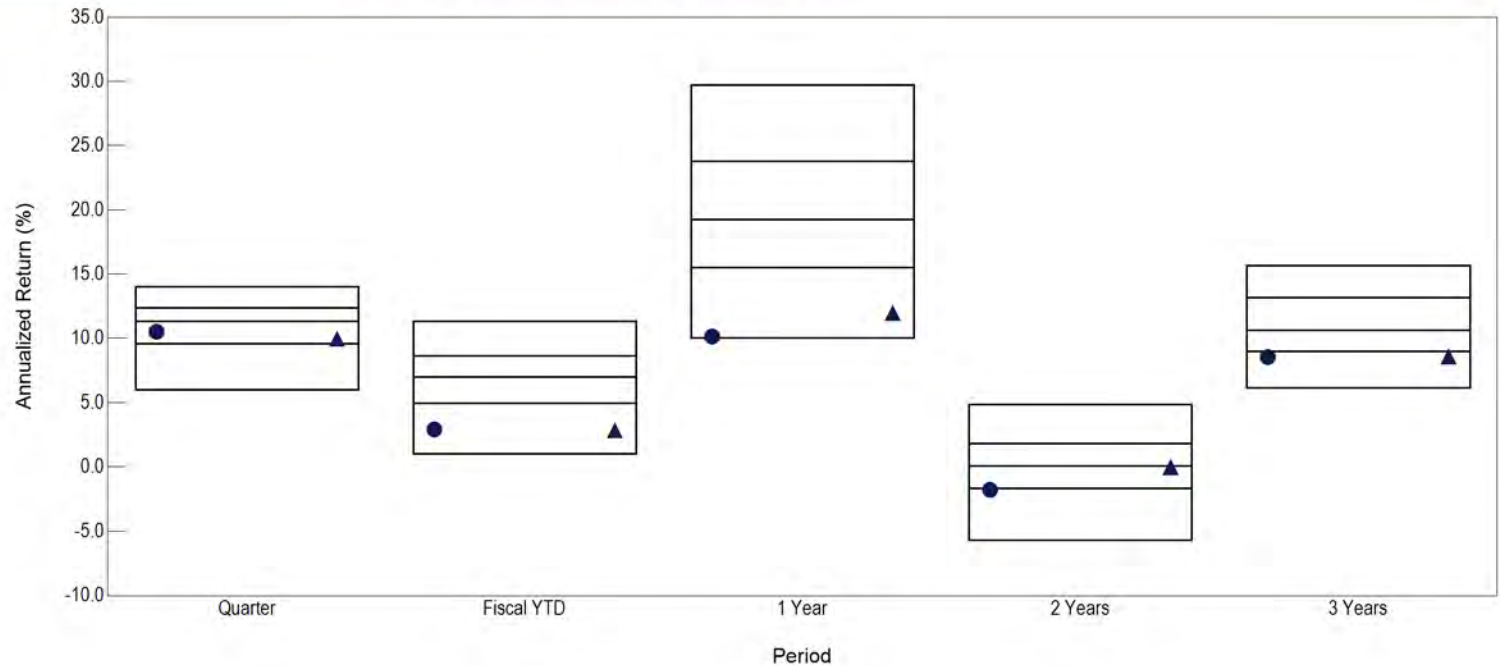
Quarterly and Cumulative Excess Performance



Los Angeles City Employees' Retirement System

DFA EMERGING MARKETS

DFA Emerging Markets vs. eV Emg Mkts Equity Net

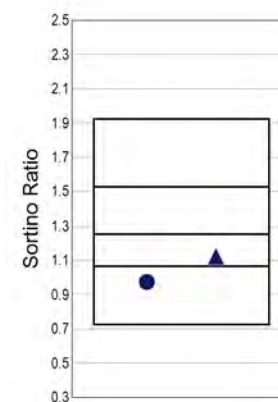
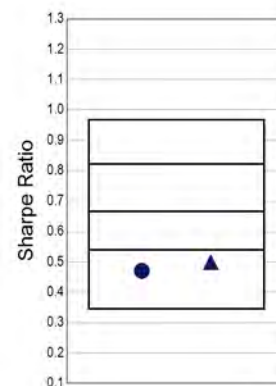
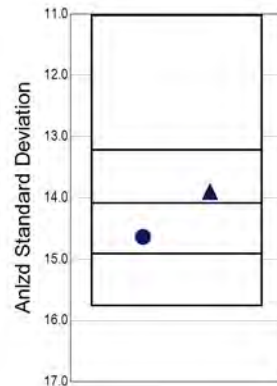
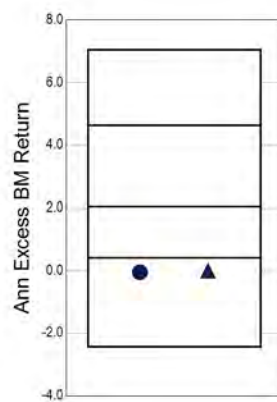
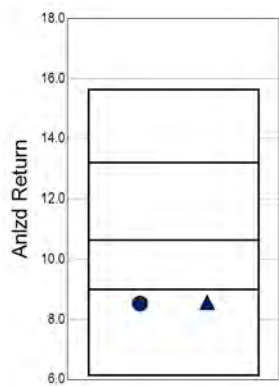
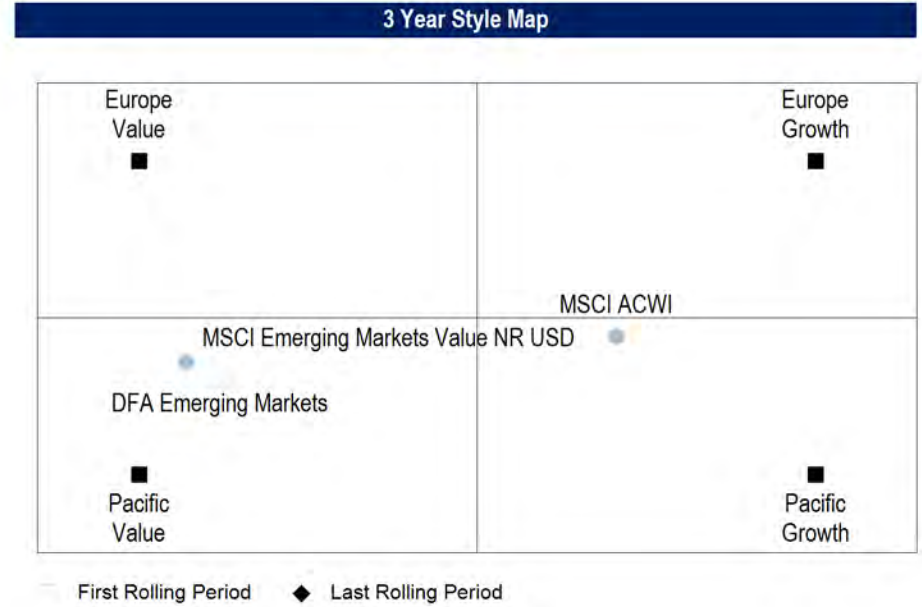
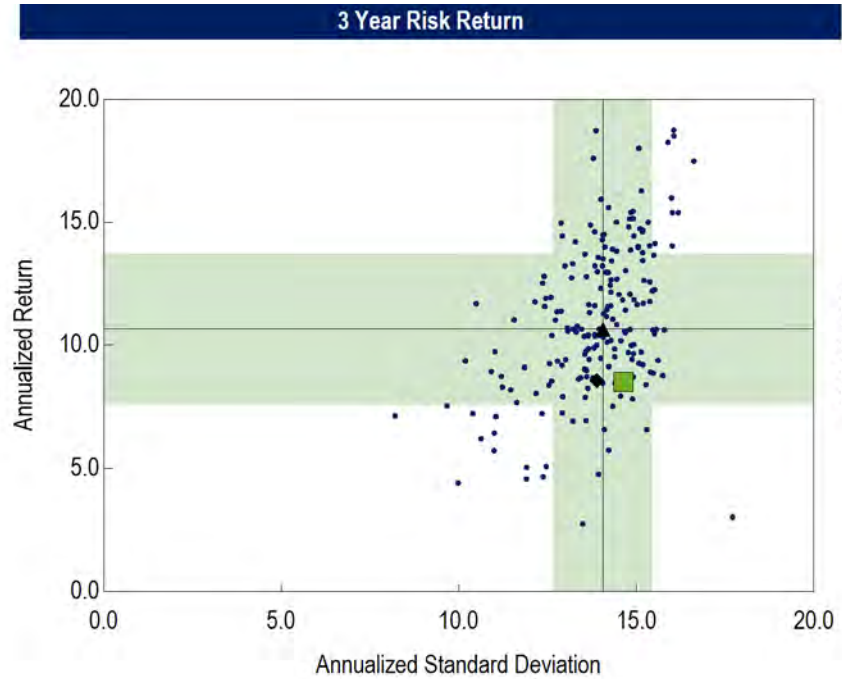


	Return (Rank)									
5th Percentile	14.00		11.32		29.70		4.81		15.63	
25th Percentile	12.43		8.66		23.82		1.83		13.22	
Median	11.37		7.00		19.28		0.09		10.66	
75th Percentile	9.60		4.98		15.56		-1.62		9.01	
95th Percentile	6.03		1.03		10.05		-5.64		6.17	
# of Portfolios	218		217		216		207		199	
● DFA Emerging Markets	10.50	(67)	2.89	(89)	10.13	(95)	-1.81	(77)	8.53	(82)
▲ MSCI Emerging Markets Value NR USD	9.94	(73)	2.82	(90)	11.96	(91)	-0.03	(52)	8.57	(82)



Los Angeles City Employees' Retirement System

DFA EMERGING MARKETS

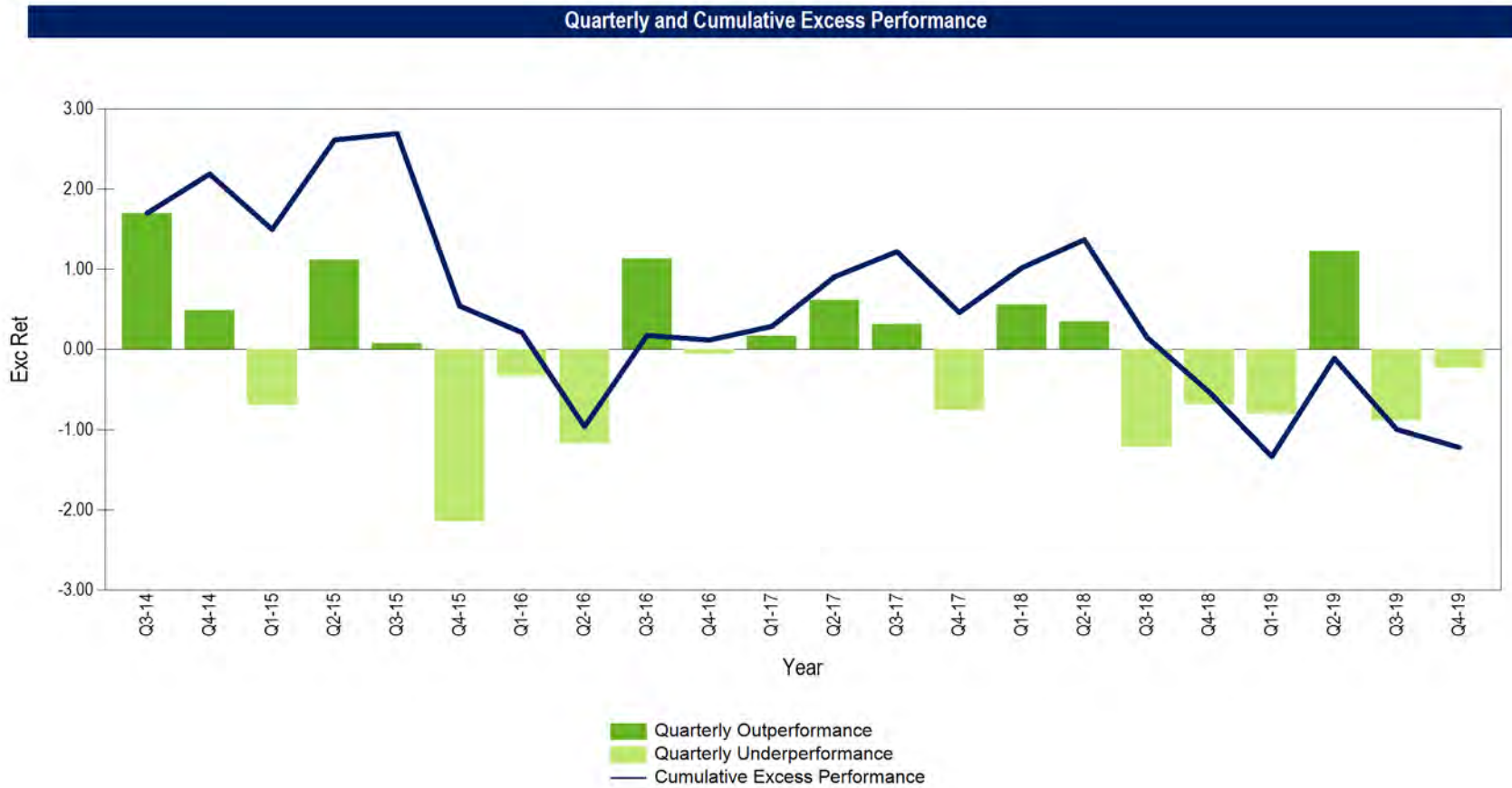


- DFA Emerging Markets
- ▲ MSCI Emerging Markets Value NR USD
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



Los Angeles City Employees' Retirement System

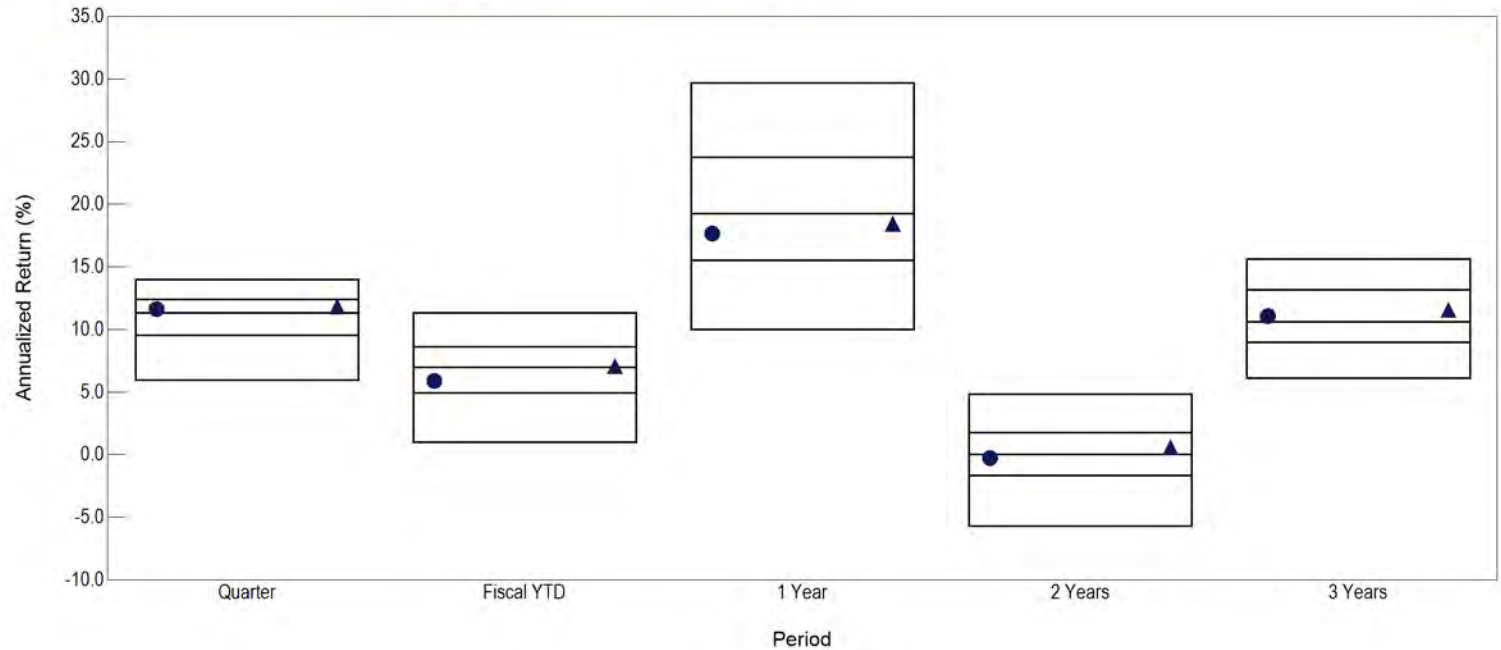
QMA EMERGING MARKETS



Los Angeles City Employees' Retirement System

QMA EMERGING MARKETS

QMA Emerging Markets vs. eV Emg Mkts Equity Net



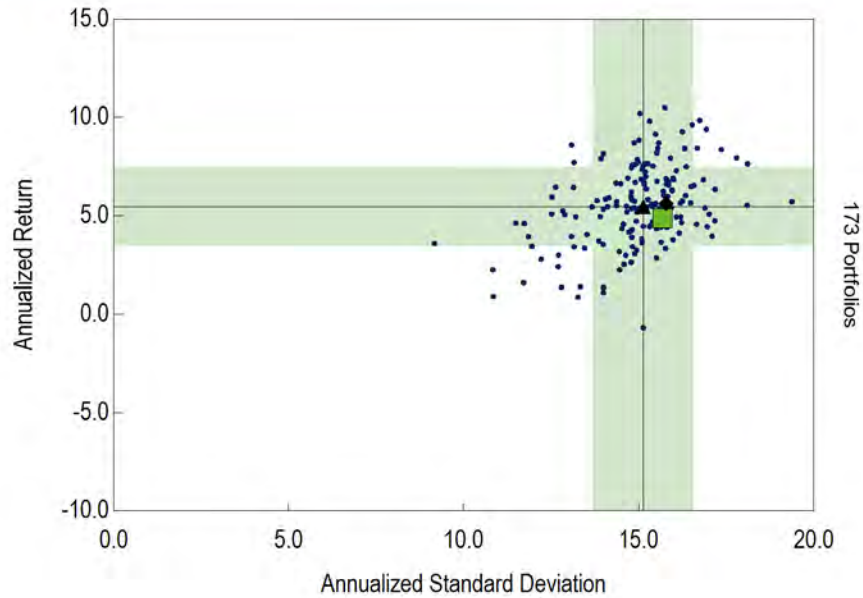
	Return (Rank)									
5th Percentile	14.00		11.32		29.70		4.81		15.63	
25th Percentile	12.43		8.66		23.82		1.83		13.22	
Median	11.37		7.00		19.28		0.09		10.66	
75th Percentile	9.60		4.98		15.56		-1.62		9.01	
95th Percentile	6.03		1.03		10.05		-5.64		6.17	
# of Portfolios	218		217		216		207		199	
● QMA Emerging Markets	11.61	(44)	5.88	(65)	17.66	(64)	-0.27	(56)	11.05	(47)
▲ MSCI Emerging Markets	11.84	(36)	7.09	(49)	18.44	(57)	0.58	(41)	11.57	(43)



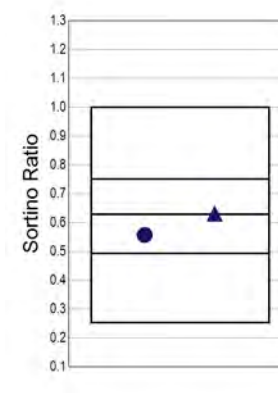
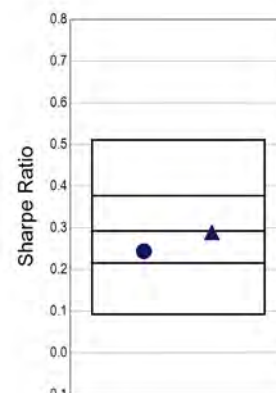
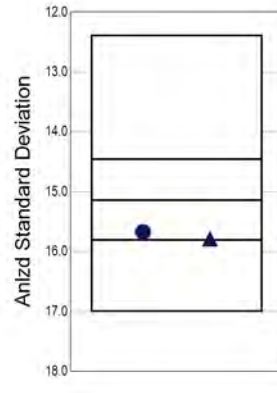
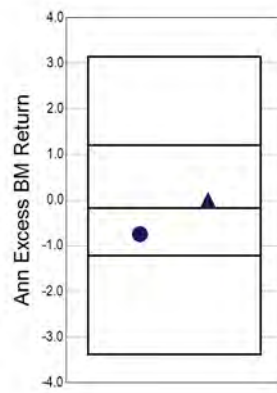
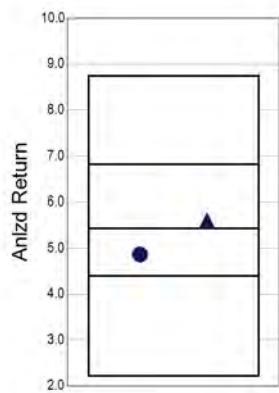
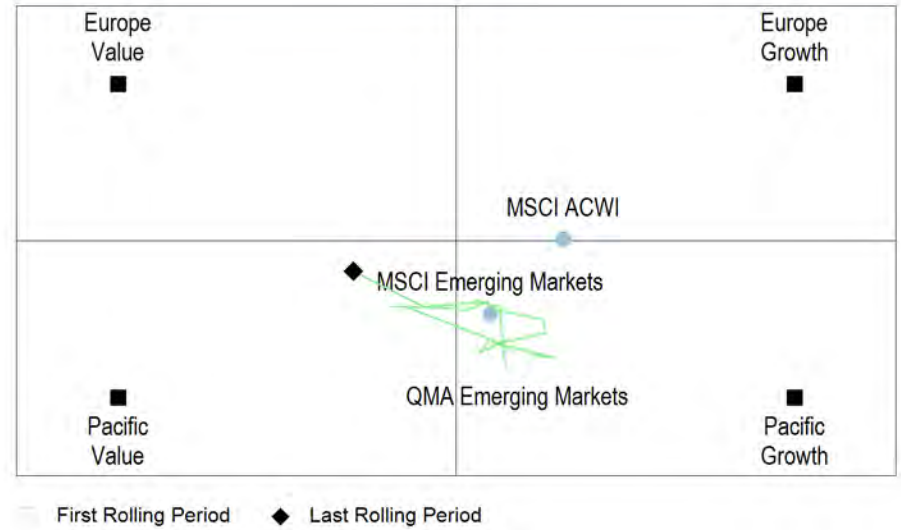
Los Angeles City Employees' Retirement System

QMA EMERGING MARKETS

5 Year Risk Return



5 Year Style Map



- QMA Emerging Markets
- ▲ MSCI Emerging Markets
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



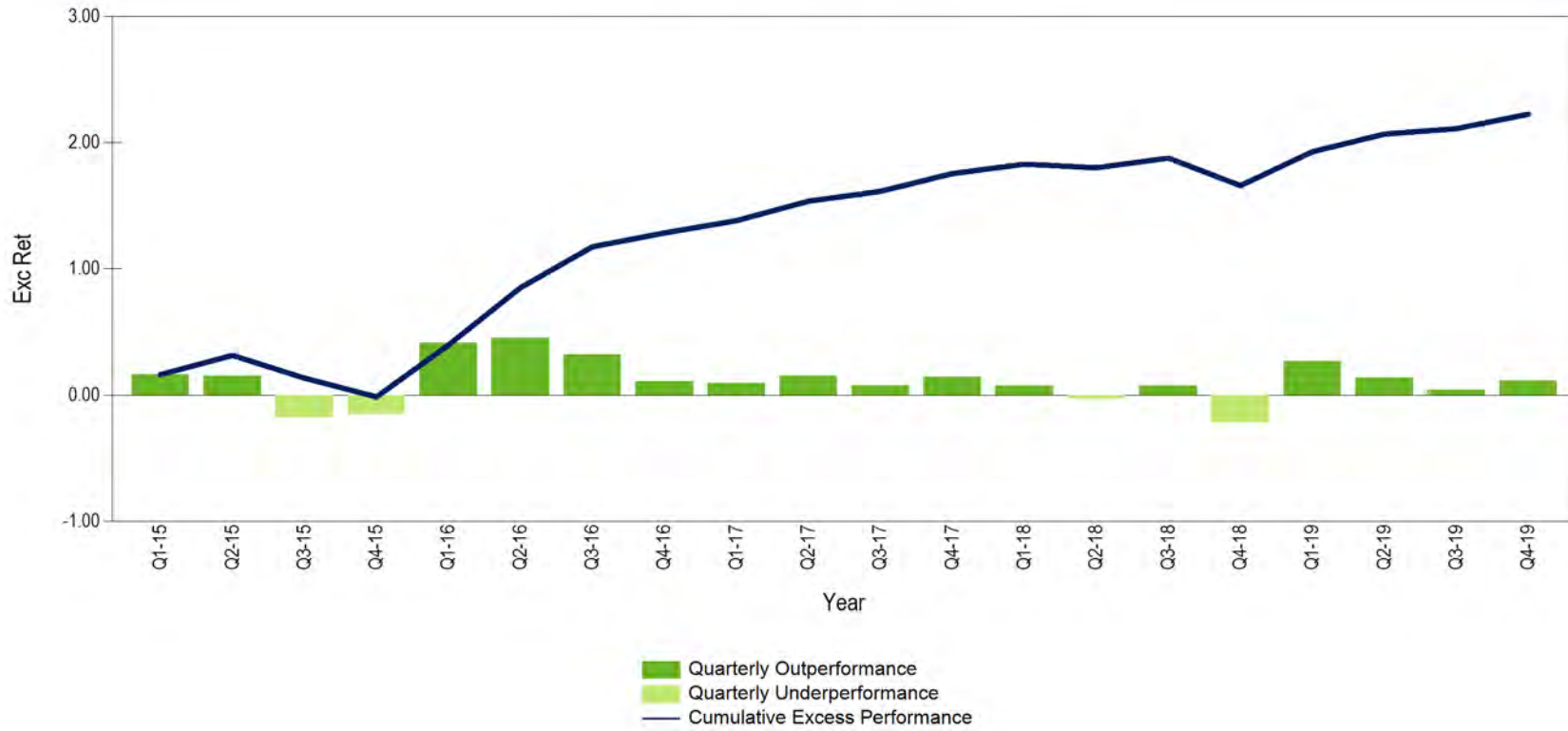
CORE FIXED INCOME MANAGER PERFORMANCE

NEPC, LLC

Los Angeles City Employees' Retirement System

BAIRD ADVISORS

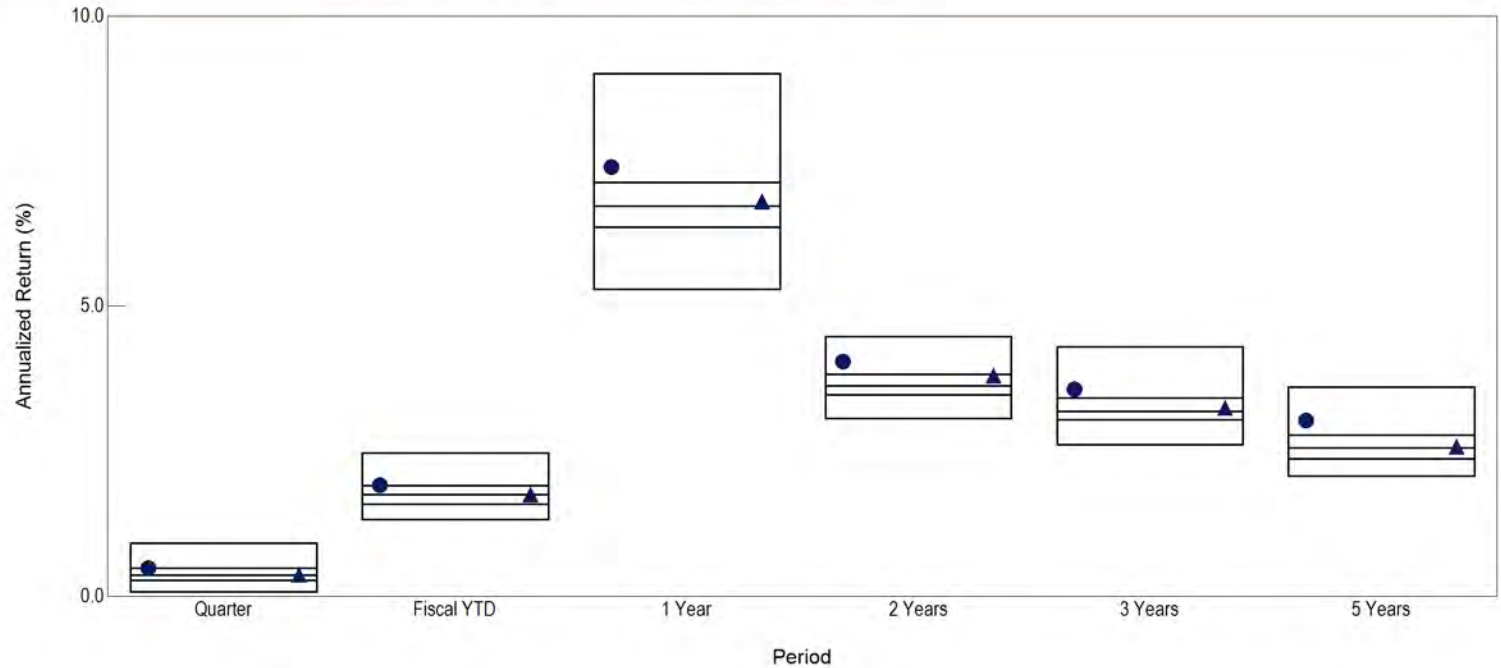
Quarterly and Cumulative Excess Performance



Los Angeles City Employees' Retirement System

BAIRD ADVISORS

Baird Advisors vs. eV US Interm Duration Fixed Inc Net



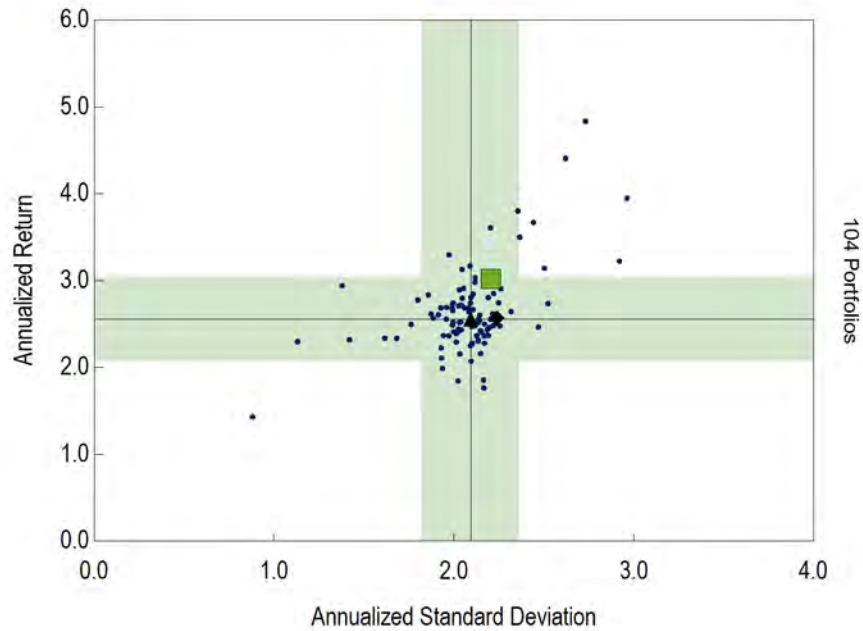
	Return (Rank)											
5th Percentile	0.92		2.47		9.01		4.47		4.29		3.59	
25th Percentile	0.50		1.91		7.14		3.83		3.42		2.78	
Median	0.37		1.75		6.74		3.63		3.19		2.56	
75th Percentile	0.29		1.59		6.37		3.48		3.05		2.37	
95th Percentile	0.09		1.33		5.30		3.07		2.62		2.08	
# of Portfolios	109		109		109		109		106		104	
● Baird Advisors	0.49	(28)	1.91	(25)	7.40	(16)	4.04	(13)	3.56	(16)	3.02	(14)
▲ BBgBarc US Govt/Credit Int TR	0.37	(51)	1.75	(51)	6.80	(45)	3.80	(31)	3.24	(42)	2.57	(47)



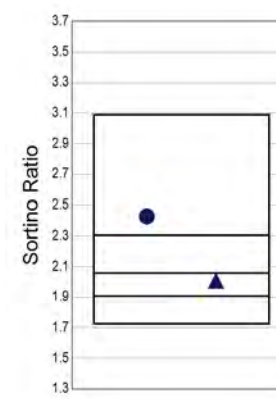
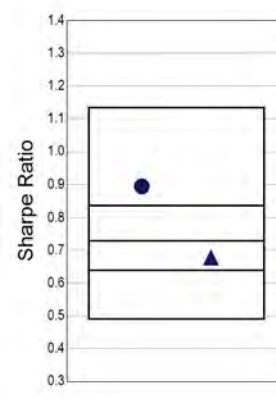
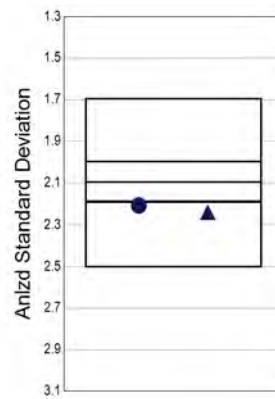
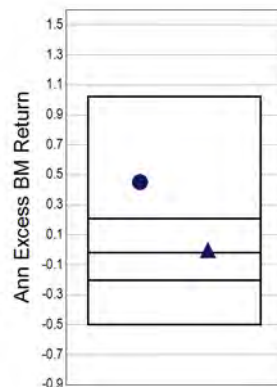
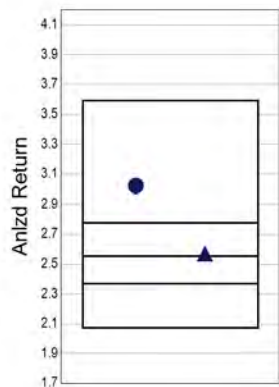
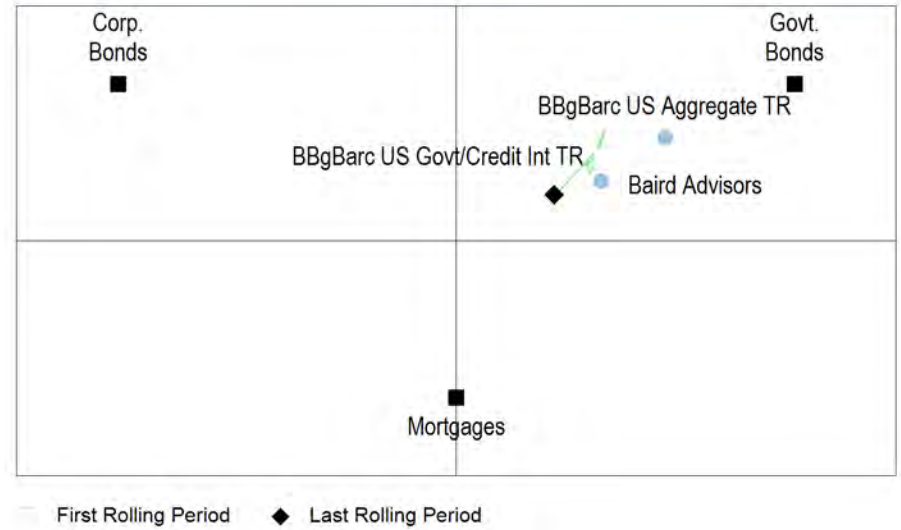
Los Angeles City Employees' Retirement System

BAIRD ADVISORS

5 Year Risk Return



5 Year Style Map



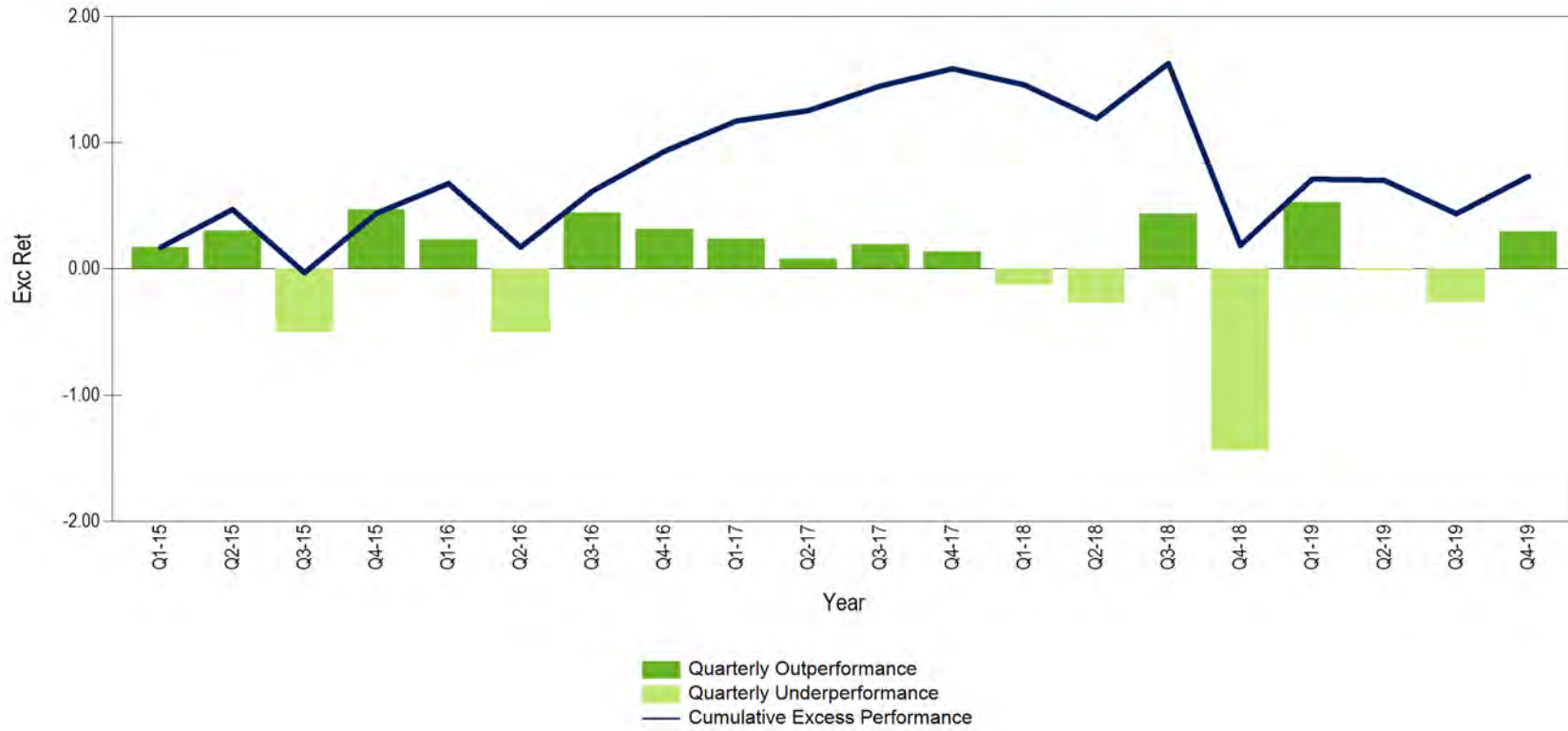
- Baird Advisors
- ▲ BBgBarc US Govt/Credit Int TR
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



Los Angeles City Employees' Retirement System

LM CAPITAL

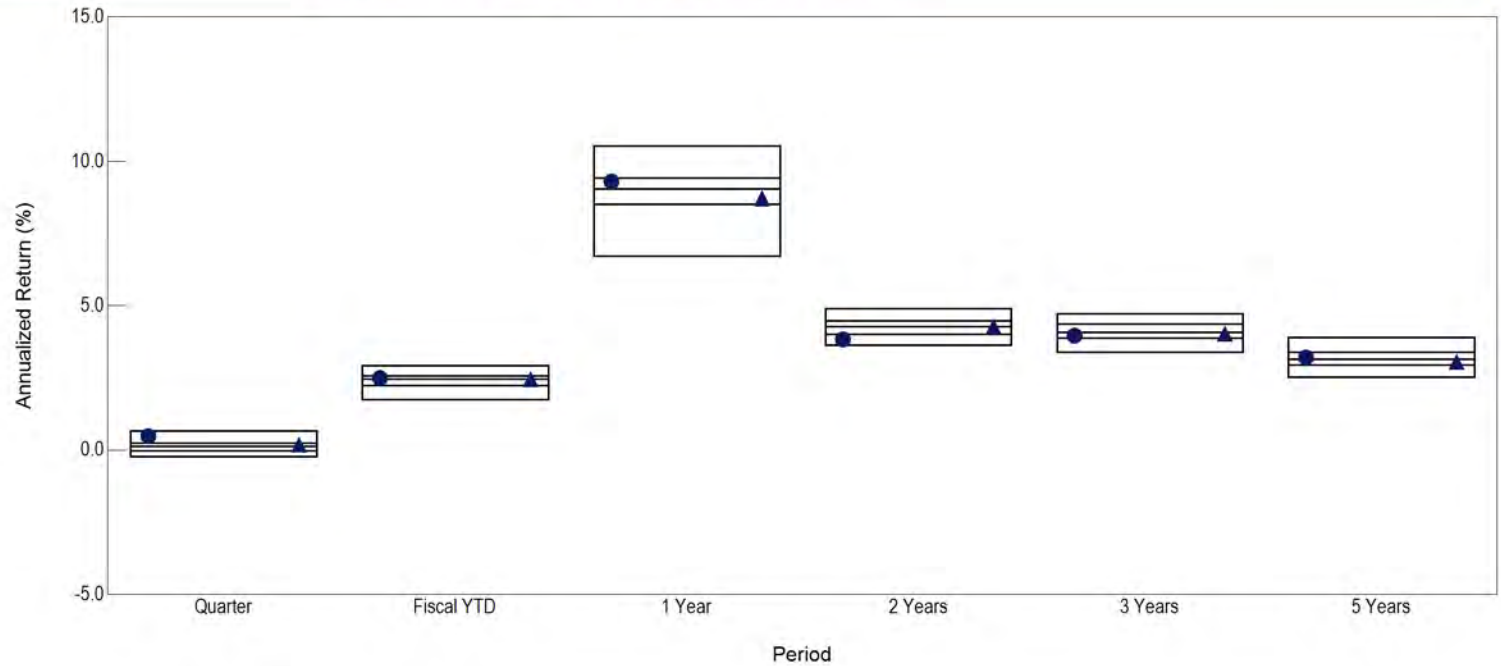
Quarterly and Cumulative Excess Performance



Los Angeles City Employees' Retirement System

LM CAPITAL

Core Fixed Income Managers vs. eV US Core Fixed Inc Net



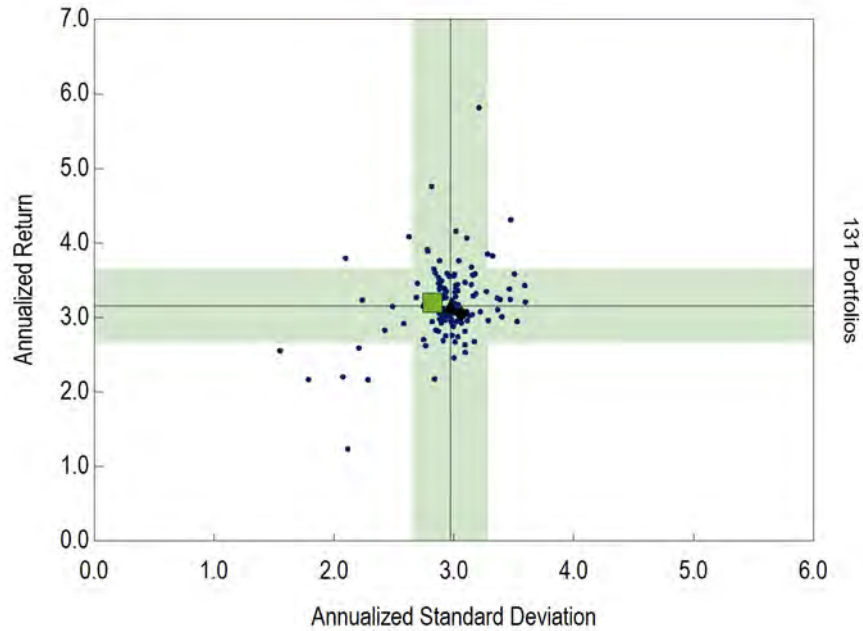
	Return (Rank)											
5th Percentile	0.66		2.91		10.53		4.90		4.72		3.90	
25th Percentile	0.26		2.58		9.44		4.49		4.38		3.41	
Median	0.14		2.46		9.07		4.29		4.09		3.15	
75th Percentile	0.00		2.26		8.52		4.03		3.90		2.96	
95th Percentile	-0.21		1.76		6.73		3.66		3.40		2.54	
# of Portfolios	137		137		137		136		135		131	
● LM Capital	0.48	(10)	2.49	(46)	9.30	(36)	3.83	(93)	3.96	(69)	3.20	(46)
▲ Core Fixed Income Blend	0.18	(43)	2.45	(53)	8.72	(69)	4.27	(53)	4.03	(57)	3.05	(66)



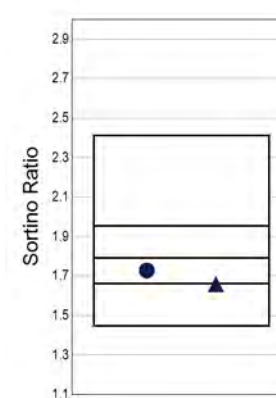
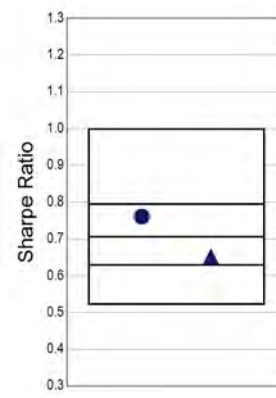
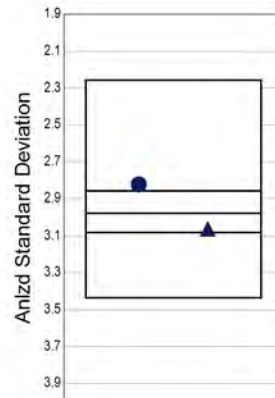
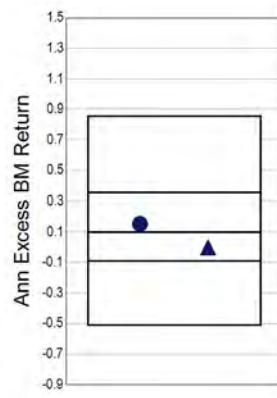
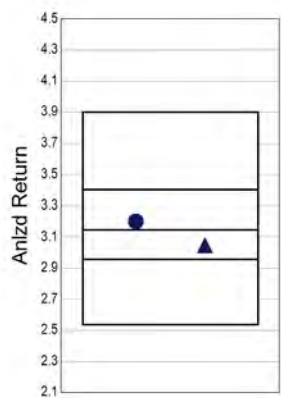
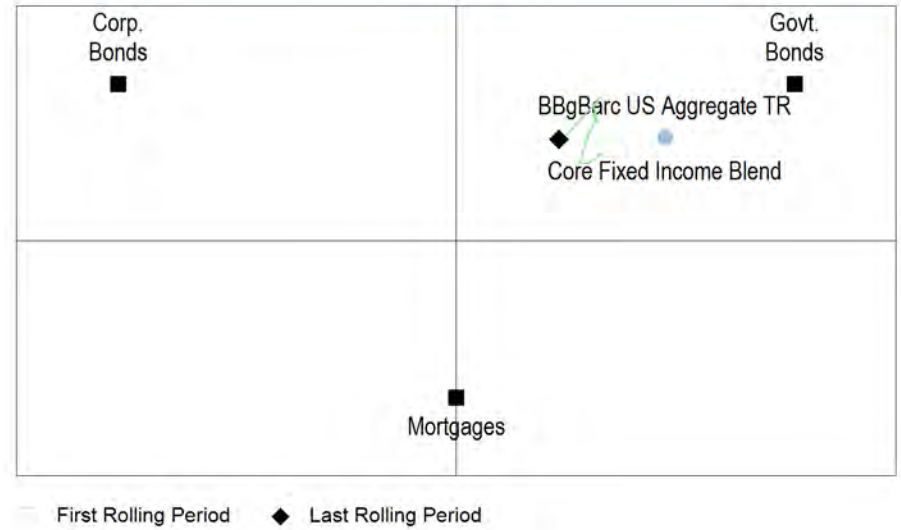
Los Angeles City Employees' Retirement System

LM CAPITAL

5 Year Risk Return



5 Year Style Map



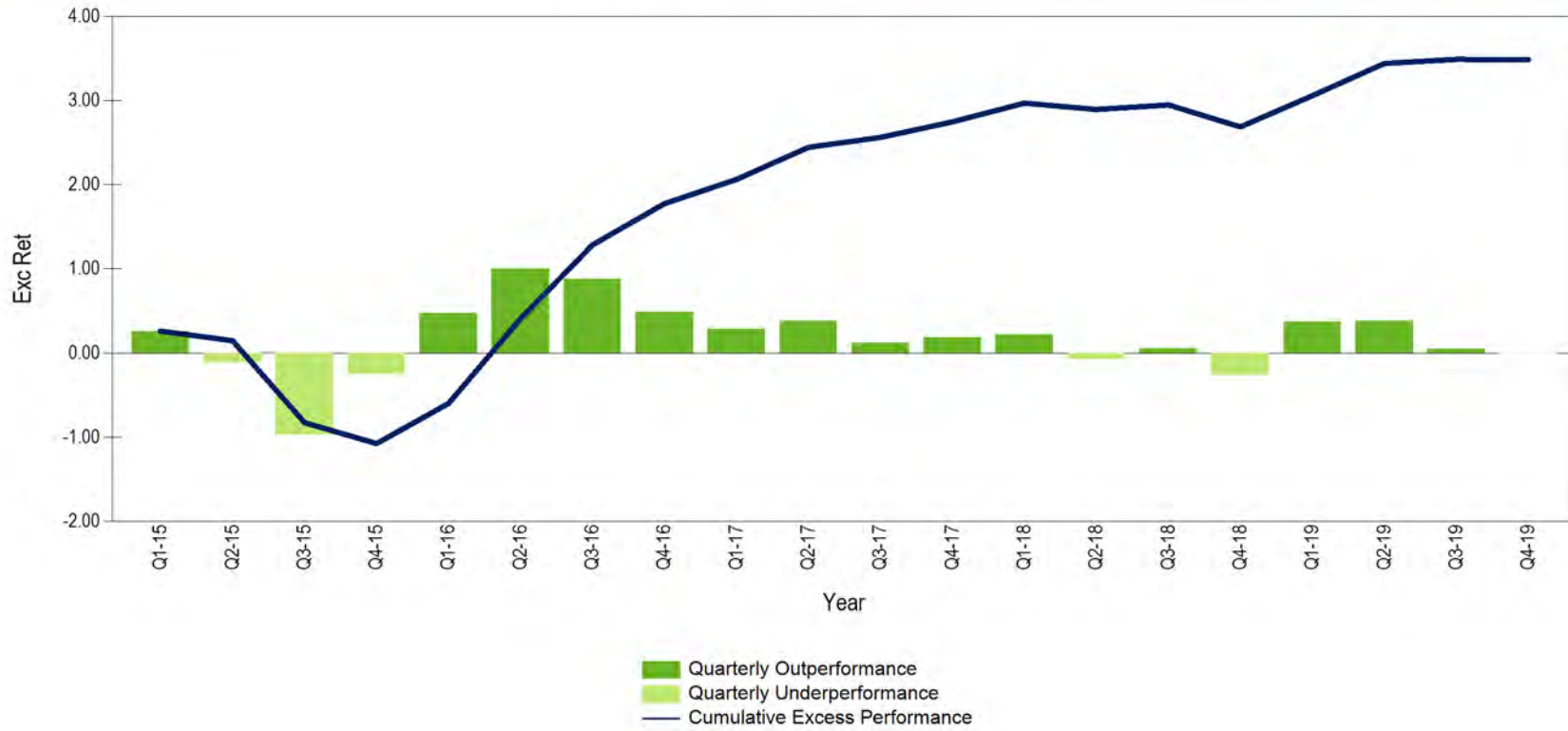
- LM Capital
- ▲ Core Fixed Income Blend
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



Los Angeles City Employees' Retirement System

LOOMIS SAYLES

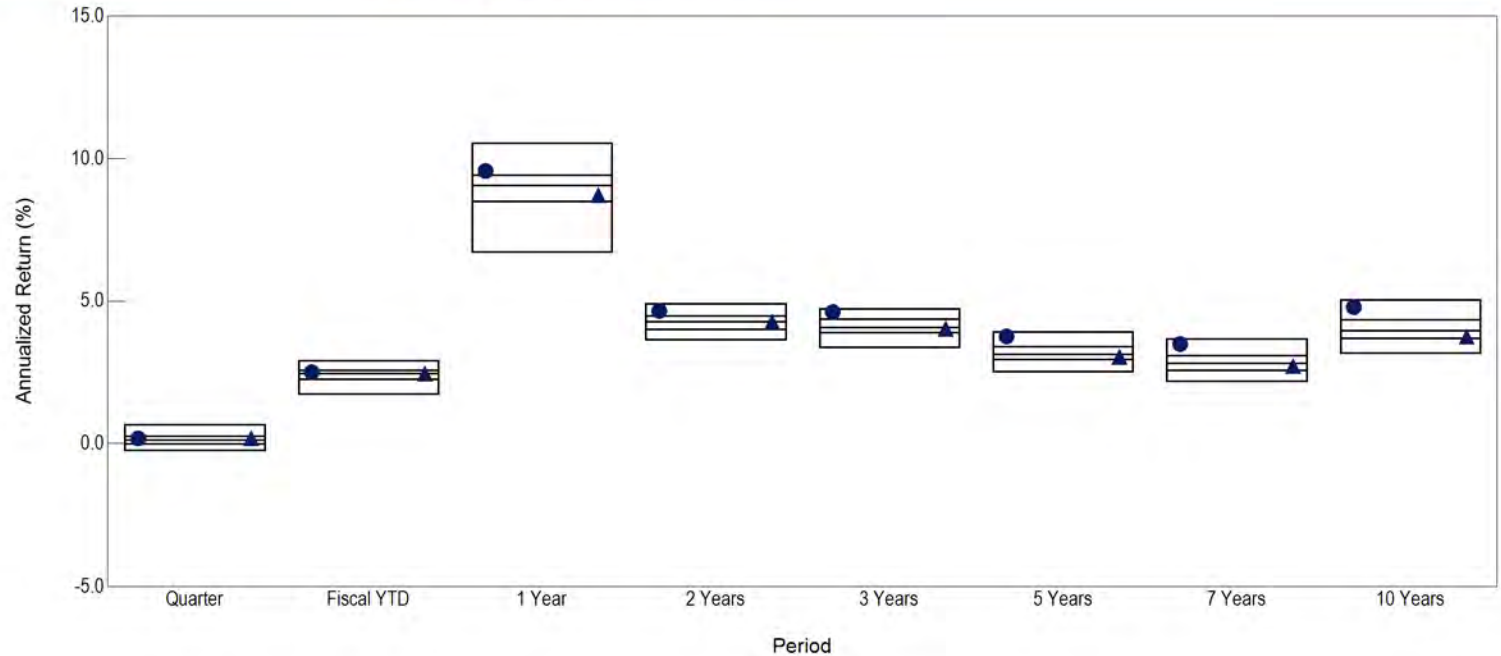
Quarterly and Cumulative Excess Performance



Los Angeles City Employees' Retirement System

LOOMIS SAYLES

Loomis Sayles vs. eV US Core Fixed Inc Net



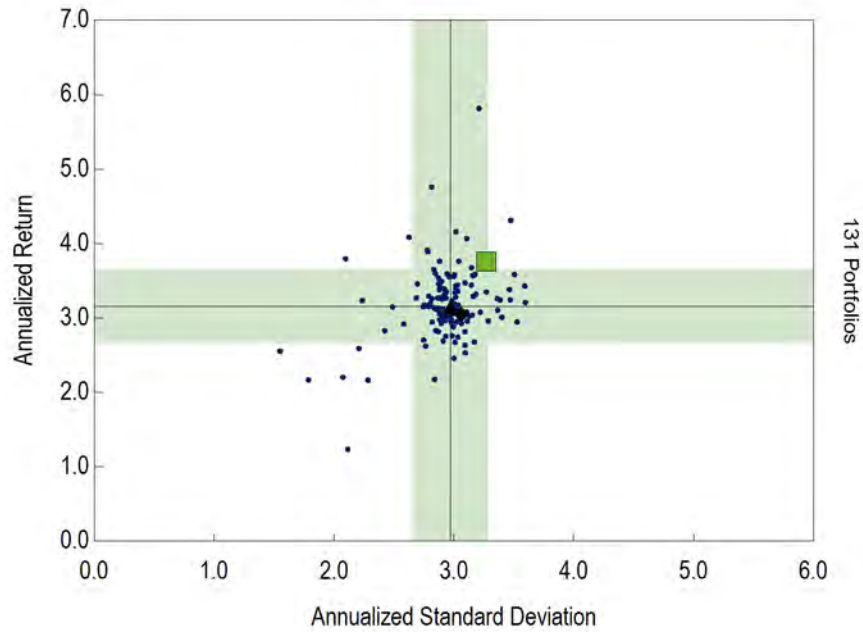
	Return (Rank)		Return (Rank)		Return (Rank)		Return (Rank)		Return (Rank)		Return (Rank)		Return (Rank)			
5th Percentile	0.66		2.91		10.53		4.90		4.72		3.90		3.66		5.04	
25th Percentile	0.26		2.58		9.44		4.49		4.38		3.41		3.11		4.37	
Median	0.14		2.46		9.07		4.29		4.09		3.15		2.83		3.98	
75th Percentile	0.00		2.26		8.52		4.03		3.90		2.96		2.59		3.70	
95th Percentile	-0.21		1.76		6.73		3.66		3.40		2.54		2.21		3.19	
# of Portfolios	137		137		137		136		135		131		129		118	
● Loomis Sayles	0.18	(44)	2.50	(42)	9.56	(19)	4.65	(15)	4.61	(10)	3.76	(10)	3.49	(8)	4.78	(11)
▲ BC US Agg LACERS custom	0.18	(43)	2.45	(53)	8.72	(69)	4.27	(53)	4.03	(57)	3.05	(66)	2.72	(60)	3.75	(72)



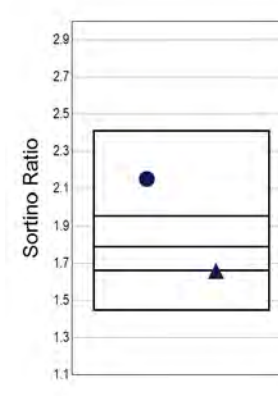
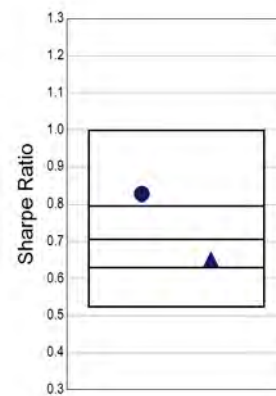
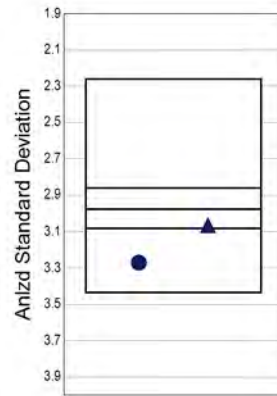
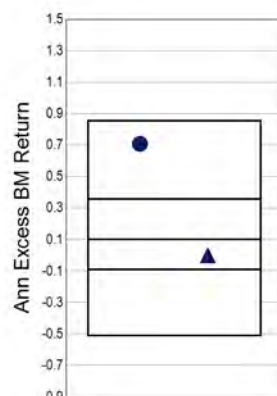
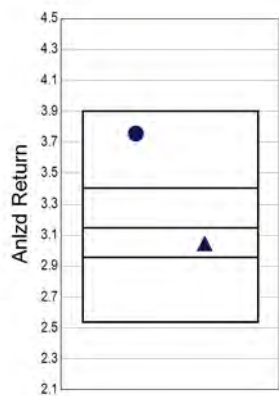
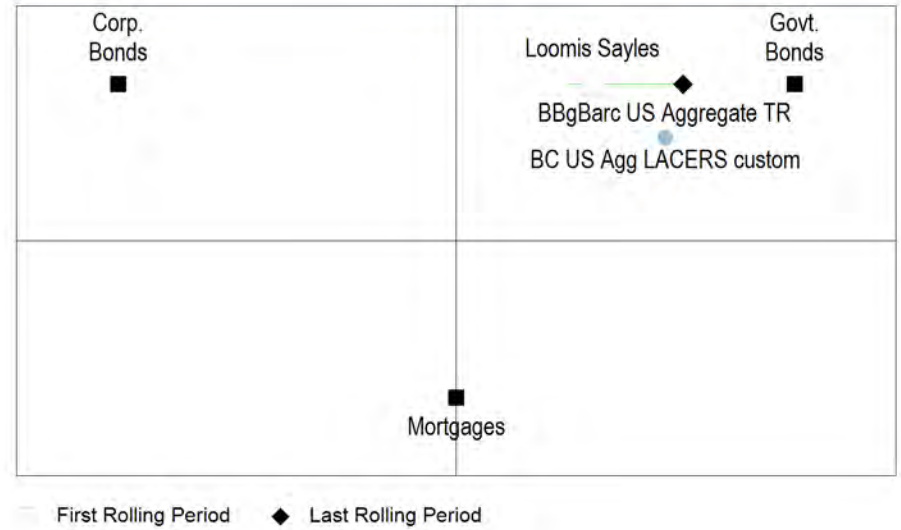
Los Angeles City Employees' Retirement System

LOOMIS SAYLES

5 Year Risk Return



5 Year Style Map



- Loomis Sayles
- ▲ BC US Agg LACERS custom
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



Los Angeles City Employees' Retirement System

NEUBERGER BERMAN

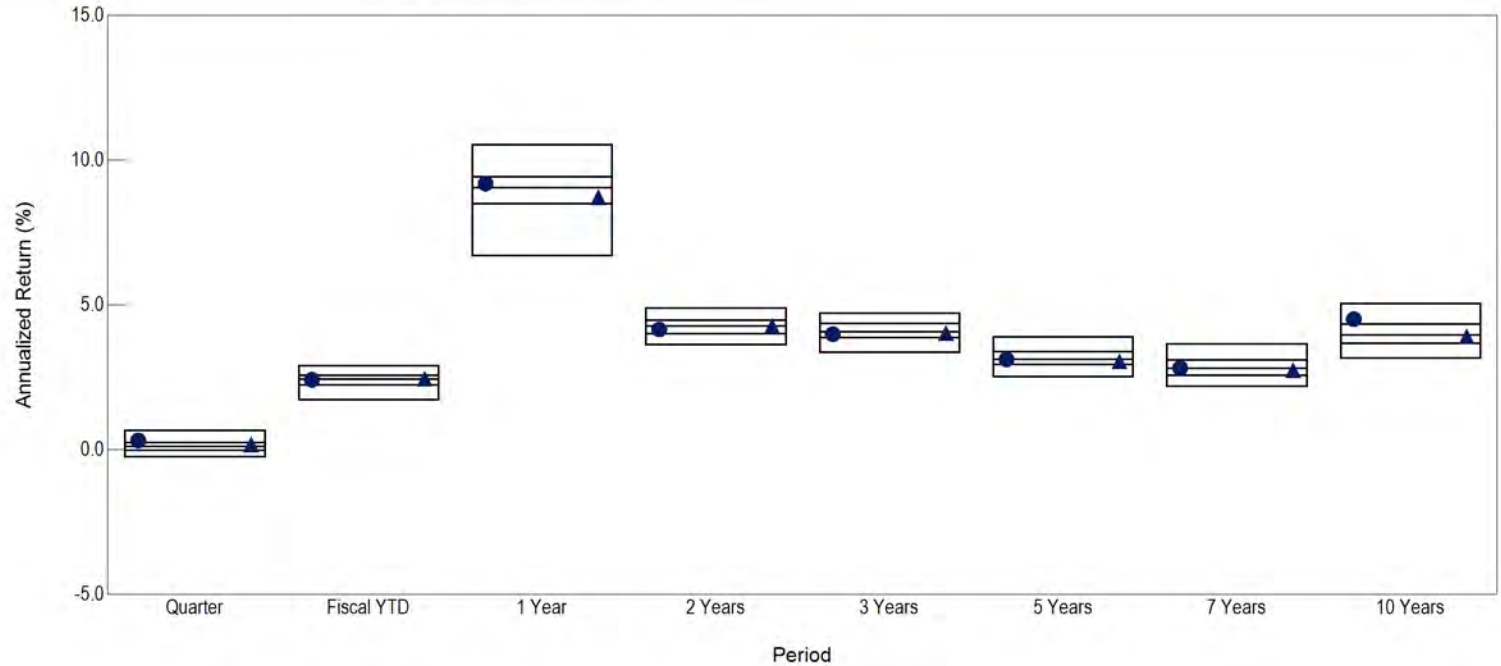
Quarterly and Cumulative Excess Performance



Los Angeles City Employees' Retirement System

NEUBERGER BERMAN

Neuberger Berman vs. eV US Core Fixed Inc Net



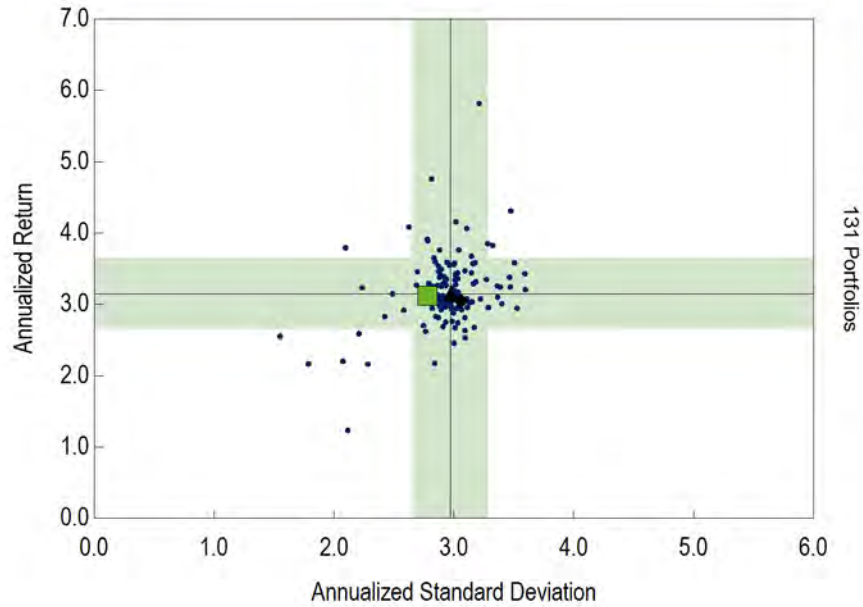
	Return (Rank)															
5th Percentile	0.66	2.91	10.53	4.90	4.72	3.90	3.66	5.04								
25th Percentile	0.26	2.58	9.44	4.49	4.38	3.41	3.11	4.37								
Median	0.14	2.46	9.07	4.29	4.09	3.15	2.83	3.98								
75th Percentile	0.00	2.26	8.52	4.03	3.90	2.96	2.59	3.70								
95th Percentile	-0.21	1.76	6.73	3.66	3.40	2.54	2.21	3.19								
# of Portfolios	137	137	137	136	135	131	129	118								
● Neuberger Berman	0.32	(16)	2.42	(58)	9.19	(43)	4.15	(66)	3.99	(64)	3.12	(55)	2.82	(52)	4.51	(17)
▲ Core Fixed Income Blend	0.18	(43)	2.45	(53)	8.72	(69)	4.27	(53)	4.03	(57)	3.05	(66)	2.74	(58)	3.91	(60)



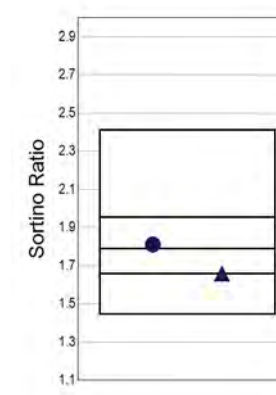
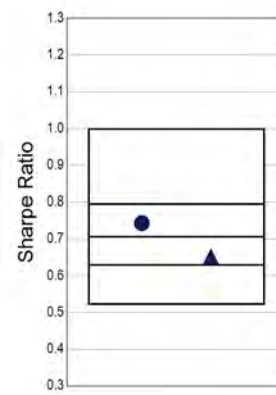
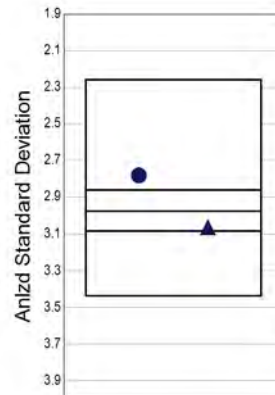
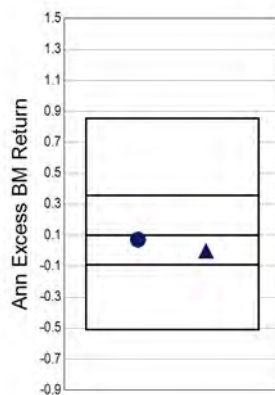
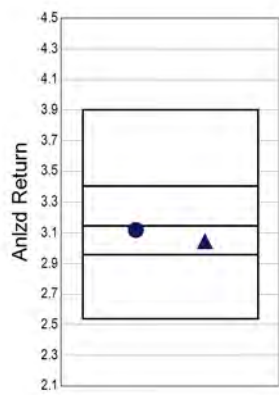
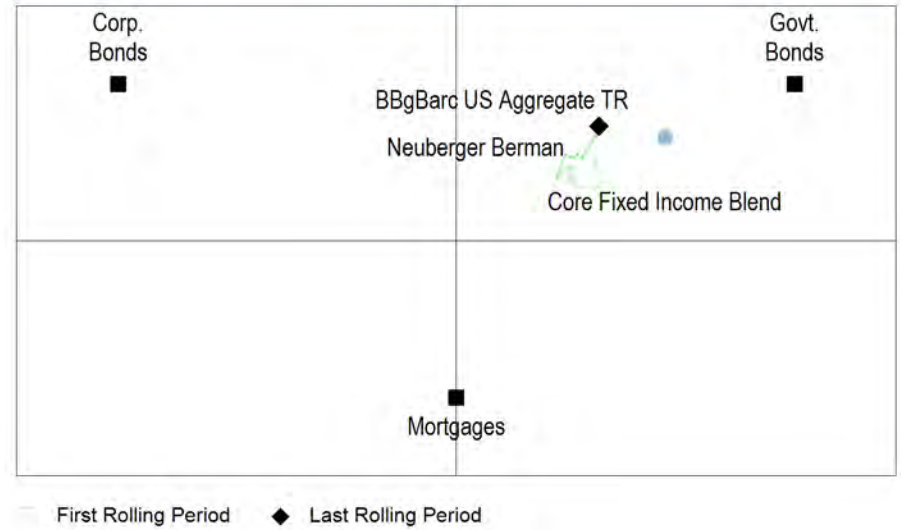
Los Angeles City Employees' Retirement System

NEUBERGER BERMAN

5 Year Risk Return



5 Year Style Map

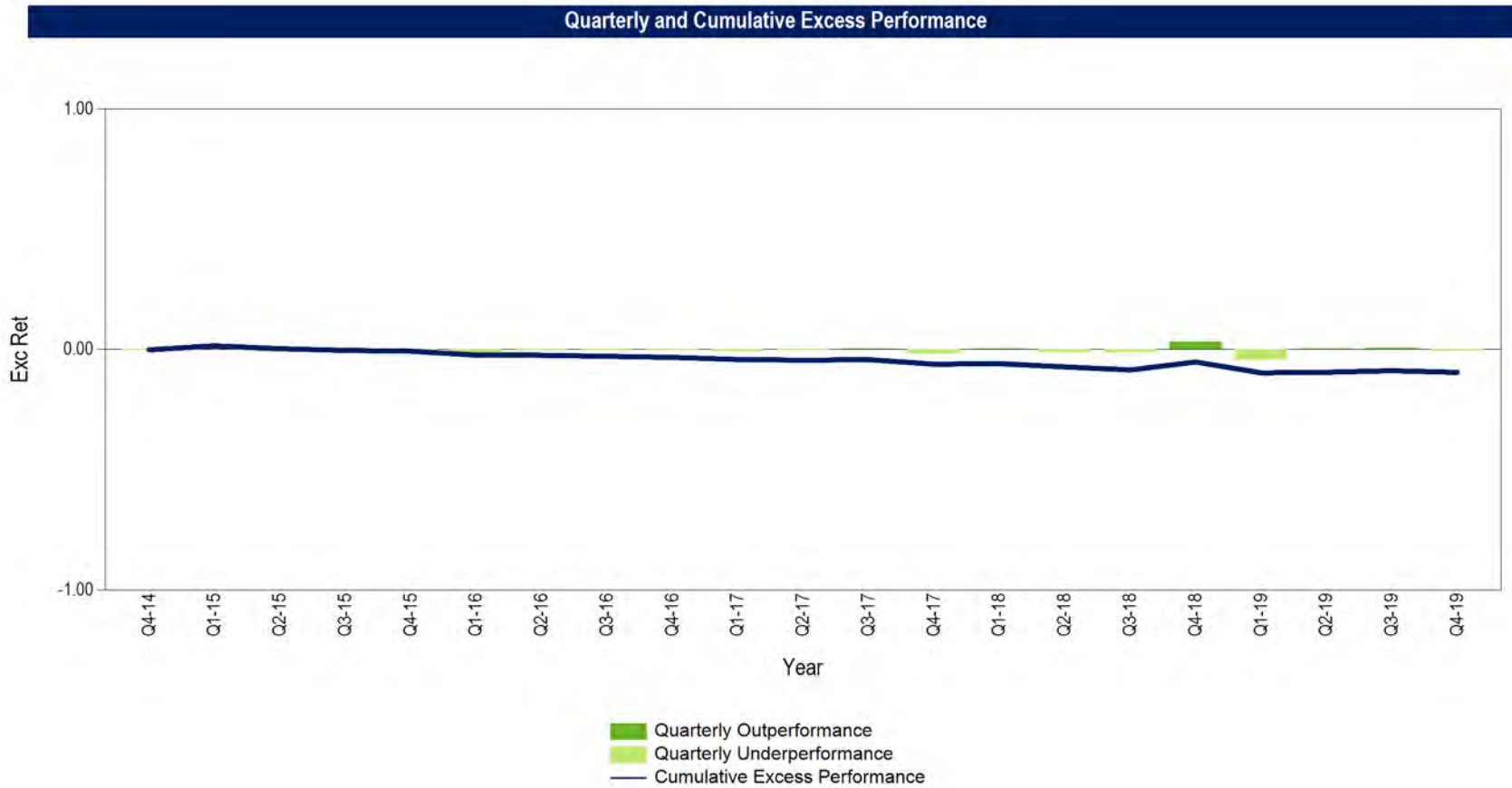


- Neuberger Berman
- ▲ Core Fixed Income Blend
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



Los Angeles City Employees' Retirement System

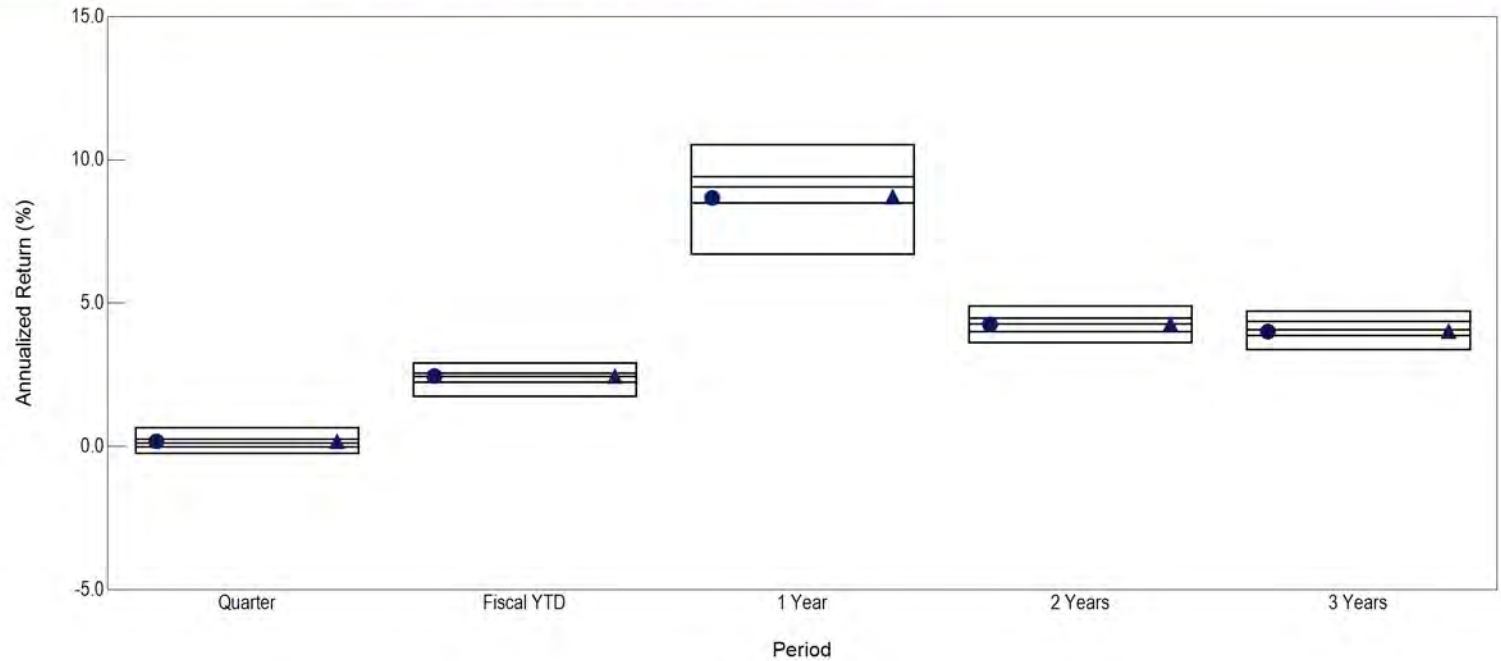
SSGA U.S. AGGREGATE BOND



Los Angeles City Employees' Retirement System

SSGA U.S. AGGREGATE BOND

SSgA U.S. Aggregate Bond vs. eV US Core Fixed Inc Net



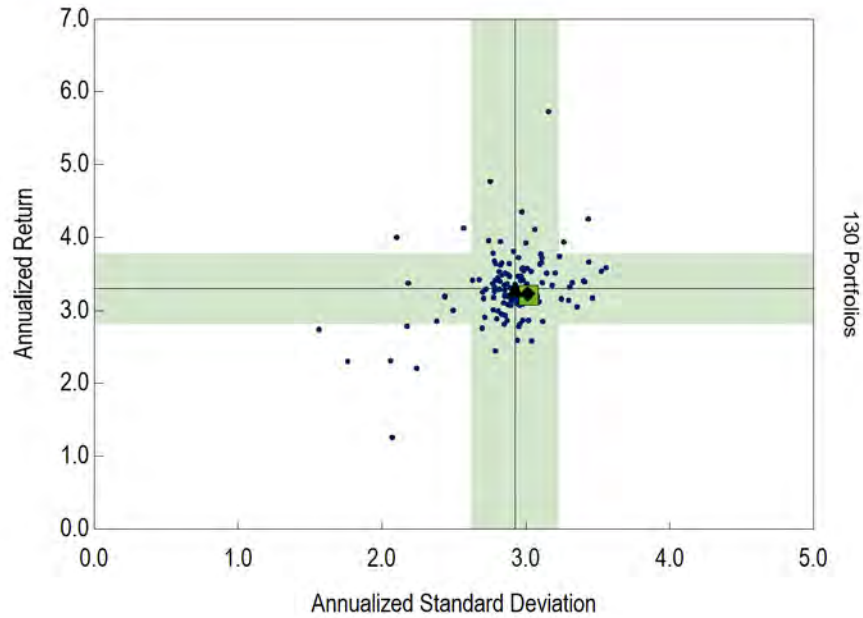
	Return (Rank)									
5th Percentile	0.66		2.91		10.53		4.90		4.72	
25th Percentile	0.26		2.58		9.44		4.49		4.38	
Median	0.14		2.46		9.07		4.29		4.09	
75th Percentile	0.00		2.26		8.52		4.03		3.90	
95th Percentile	-0.21		1.76		6.73		3.66		3.40	
# of Portfolios	137		137		137		136		135	
● SSGA U.S. Aggregate Bond	0.17	(45)	2.45	(54)	8.67	(71)	4.26	(54)	4.01	(60)
▲ BBgBarc US Aggregate TR	0.18	(43)	2.45	(53)	8.72	(69)	4.27	(53)	4.03	(57)



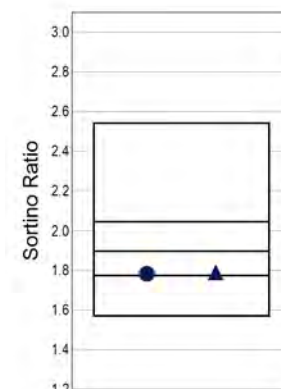
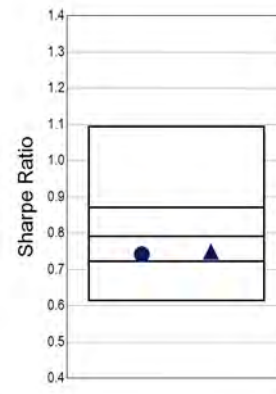
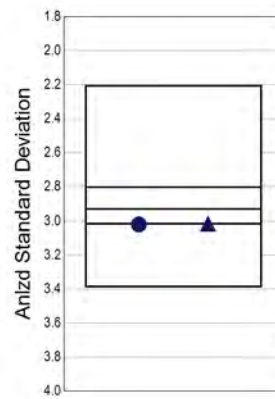
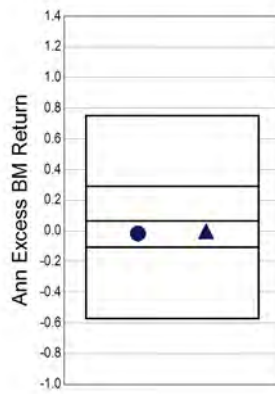
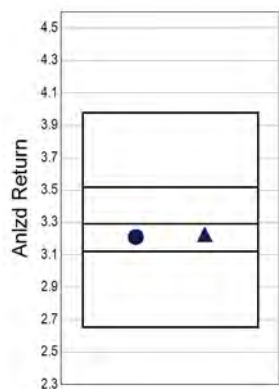
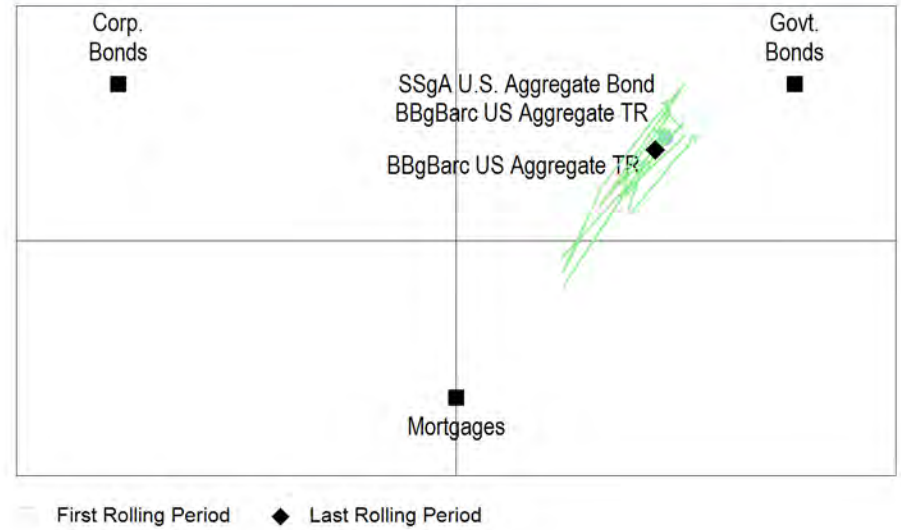
Los Angeles City Employees' Retirement System

SSGA U.S. AGGREGATE BOND

Since Inception Risk Return



Since Inception Style Map



- SSgA U.S. Aggregate Bond
- ▲ BBgBarc US Aggregate TR
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



CREDIT OPPORTUNITIES MANAGER PERFORMANCE

NEPC, LLC

AEGON USA

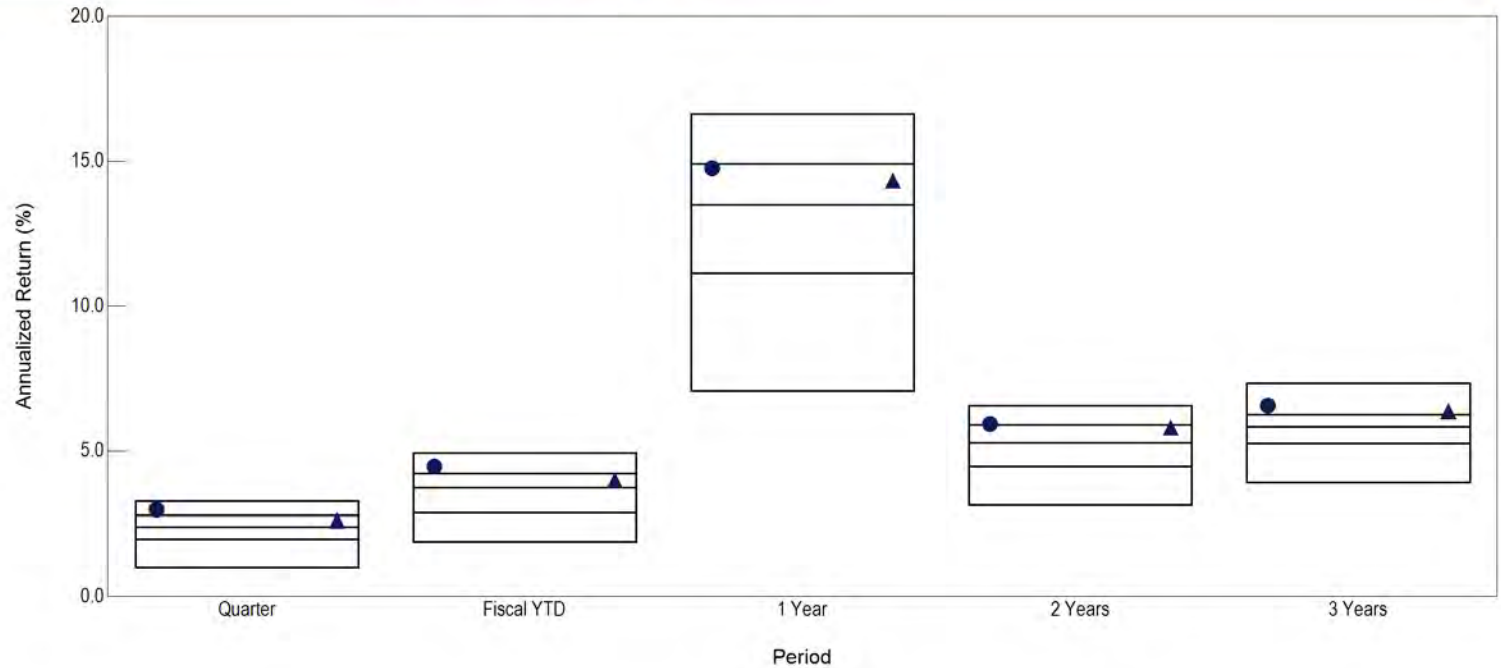
Quarterly and Cumulative Excess Performance



Los Angeles City Employees' Retirement System

AEGON USA

AEGON USA vs. eV US High Yield Fixed Inc Net



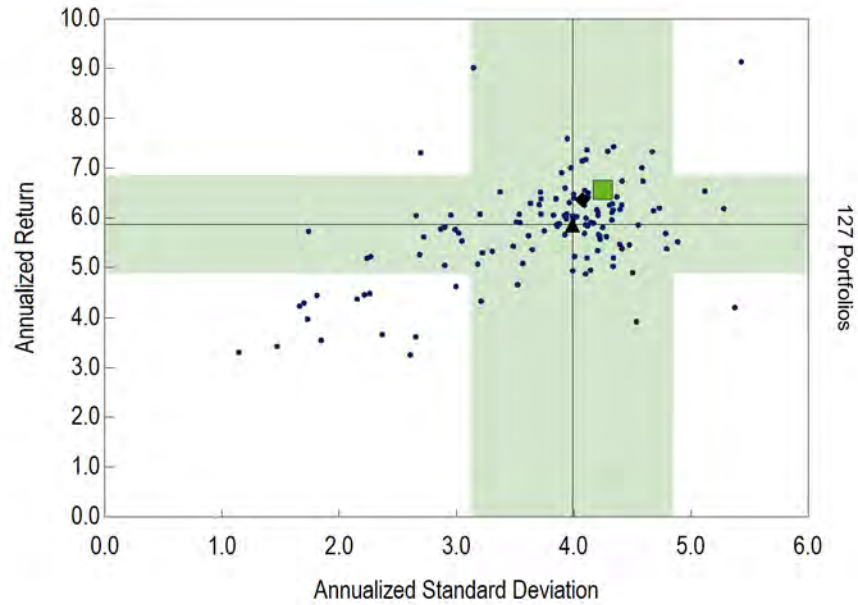
	Return (Rank)									
5th Percentile	3.27		4.92		16.61		6.56		7.32	
25th Percentile	2.81		4.24		14.93		5.91		6.26	
Median	2.40		3.75		13.51		5.31		5.86	
75th Percentile	1.98		2.90		11.15		4.48		5.28	
95th Percentile	1.02		1.90		7.09		3.15		3.94	
# of Portfolios	131		131		131		131		127	
● AEGON USA	2.98	(14)	4.46	(18)	14.75	(29)	5.93	(25)	6.56	(13)
▲ BBgBarc US High Yield 2% Issuer Cap TR	2.61	(35)	3.98	(40)	14.32	(36)	5.80	(30)	6.36	(21)



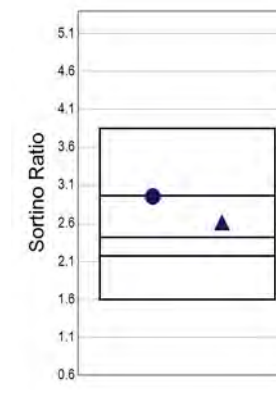
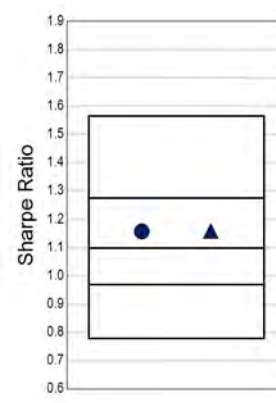
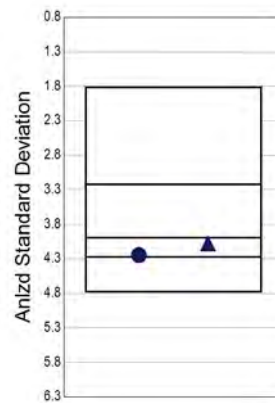
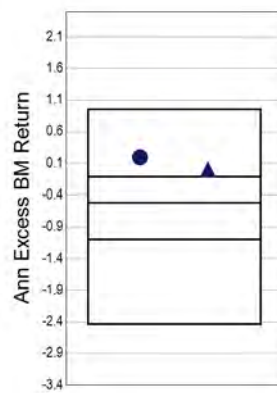
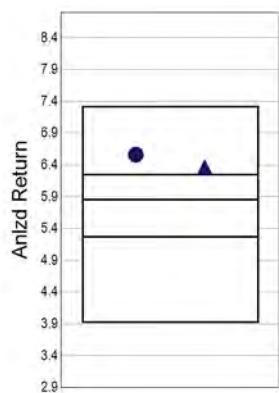
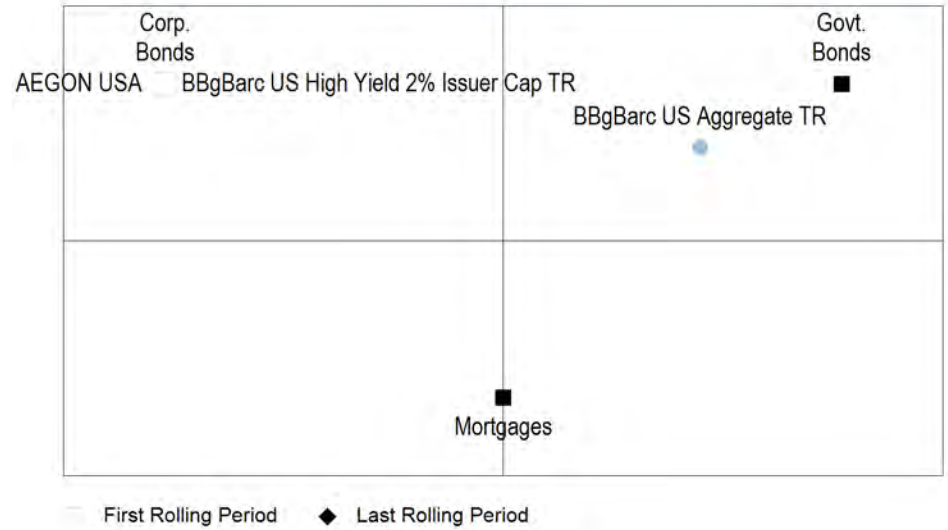
Los Angeles City Employees' Retirement System

AEGON USA

3 Year Risk Return



3 Year Style Map

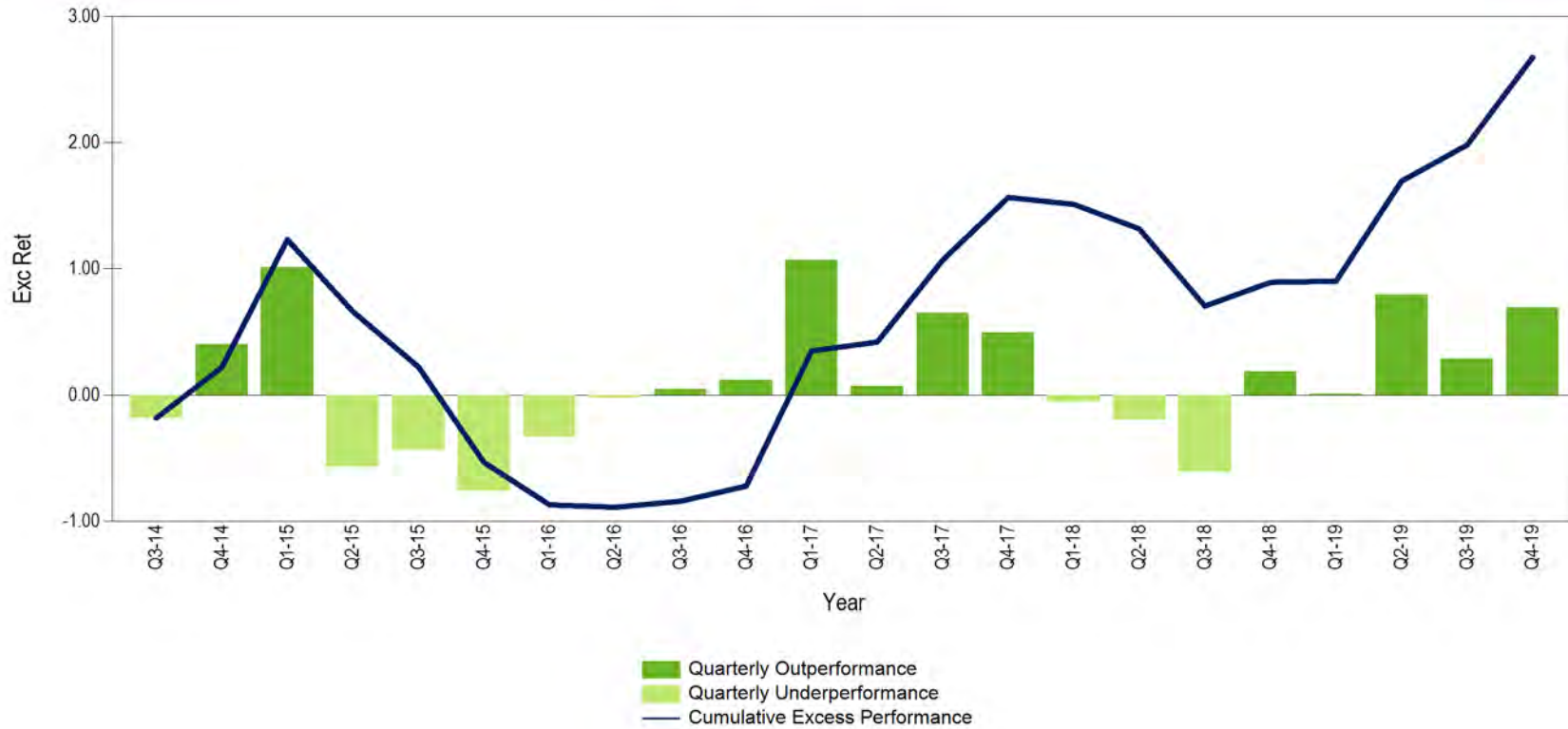


- AEGON USA
- ▲ BBgBarc US High Yield 2% Issuer Cap TR
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



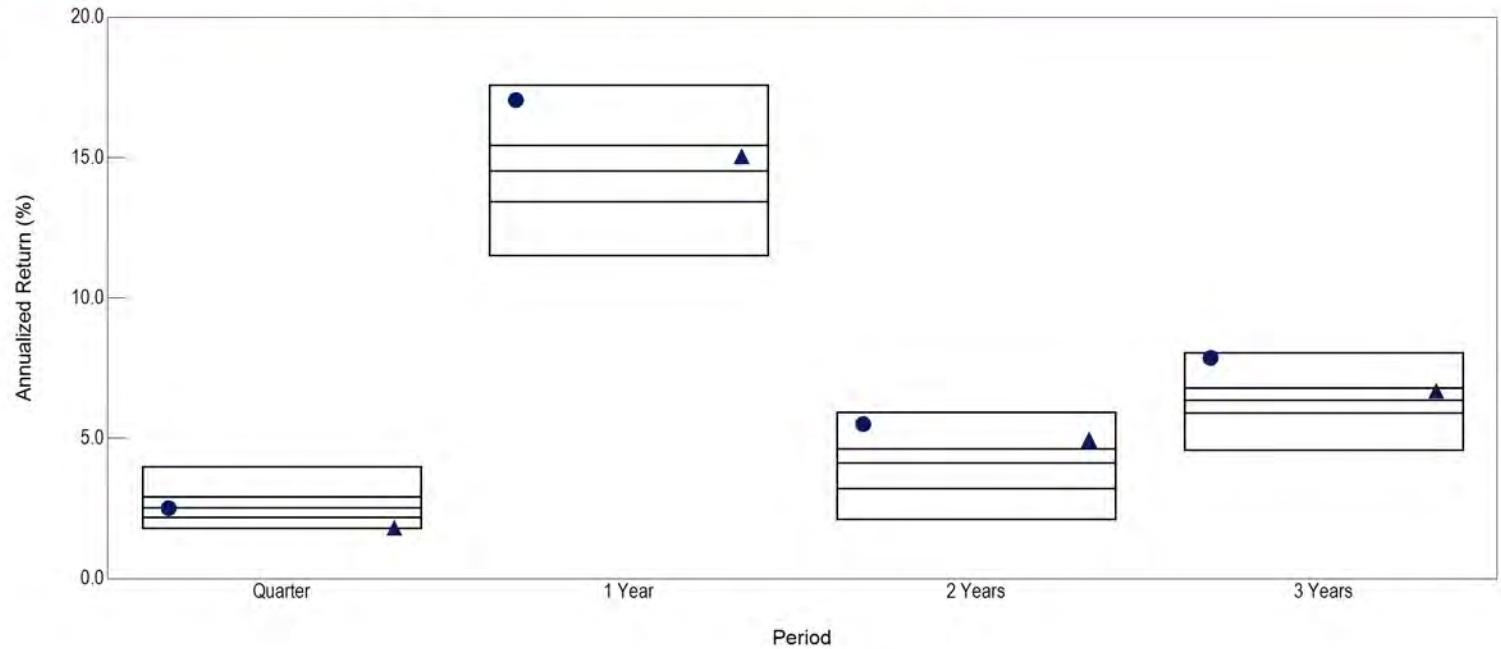
PRUDENTIAL EMERGING MARKETS

Quarterly and Cumulative Excess Performance



PRUDENTIAL EMERGING MARKETS

Prudential Emerging Markets vs. eV Emg Mkts Fixed Inc - Hard Currency Net

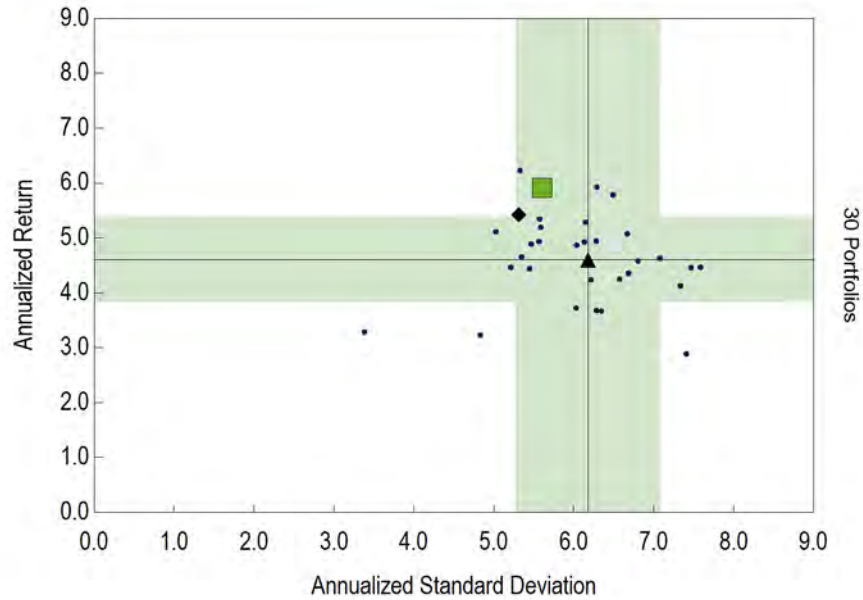


	Return (Rank)							
5th Percentile	3.99		17.58		5.92		8.04	
25th Percentile	2.93		15.45		4.65		6.80	
Median	2.55		14.55		4.14		6.38	
75th Percentile	2.21		13.45		3.23		5.91	
95th Percentile	1.81		11.53		2.13		4.60	
# of Portfolios	39		39		34		34	
● Prudential Emerging Markets	2.51	(55)	17.04	(11)	5.50	(6)	7.86	(9)
▲ JP Morgan EMBI Global Diversified	1.81	(96)	15.04	(36)	4.95	(18)	6.69	(35)

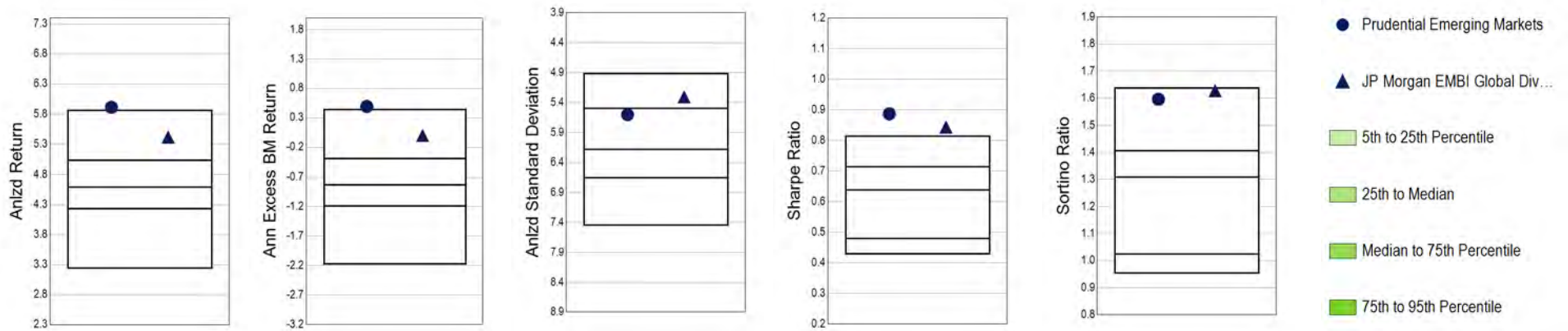
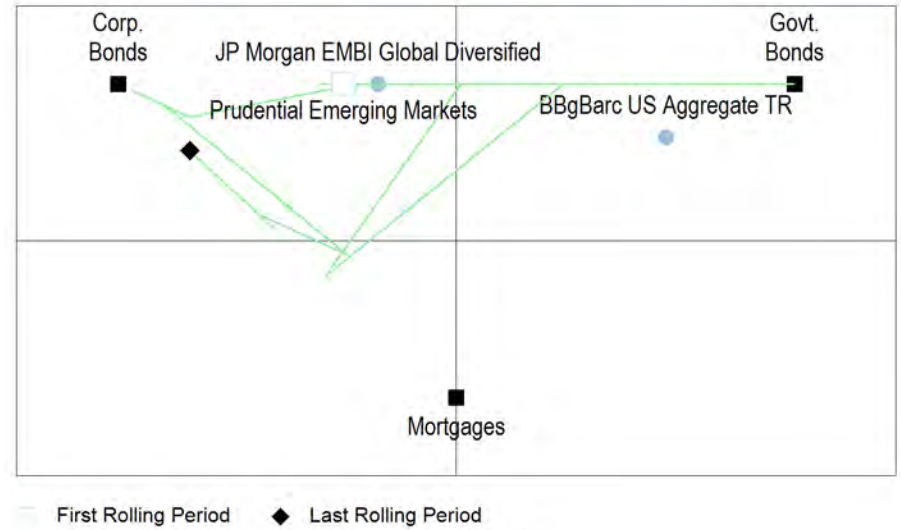


PRUDENTIAL EMERGING MARKETS

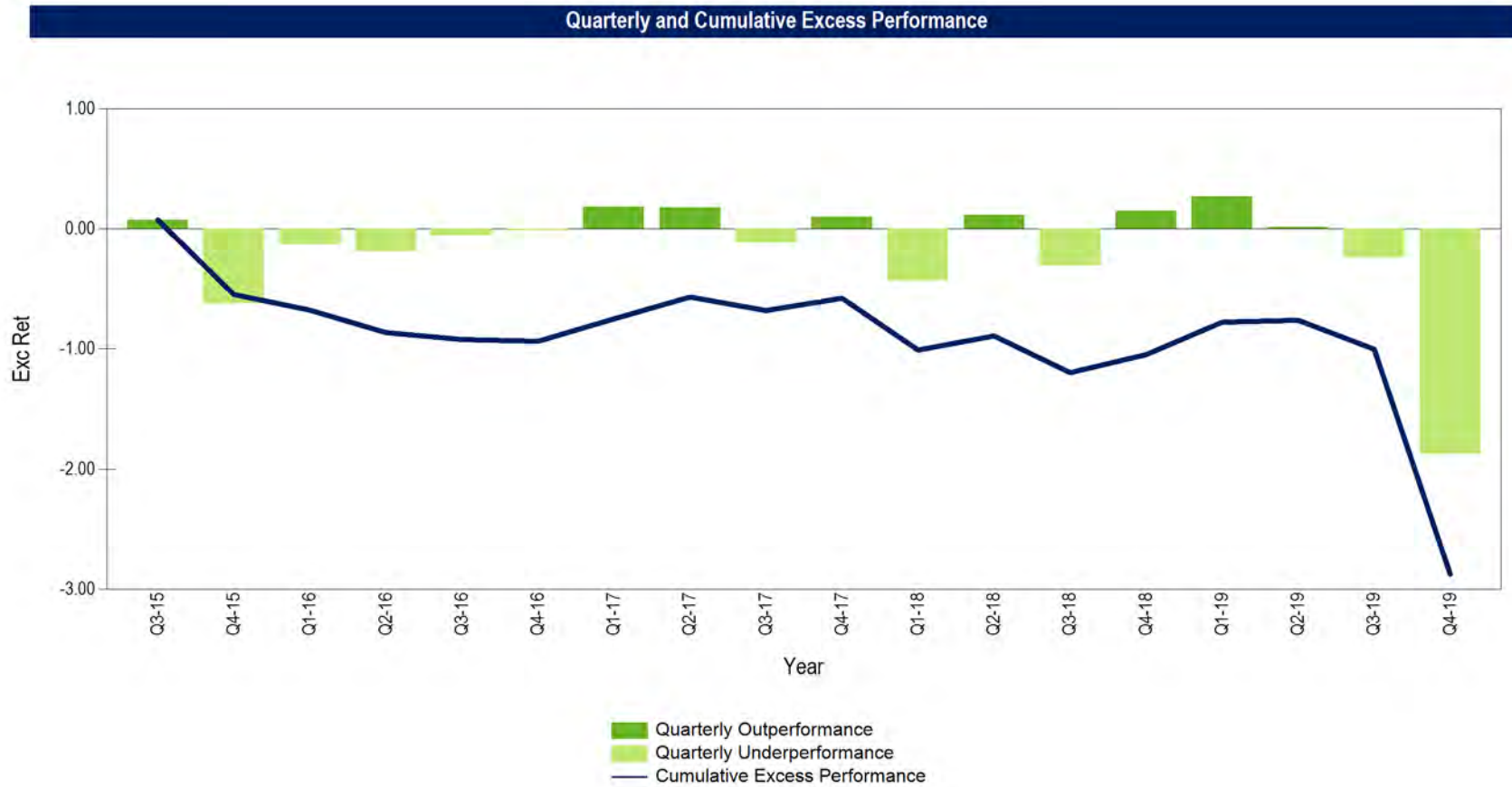
Since Inception Risk Return



Since Inception Style Map



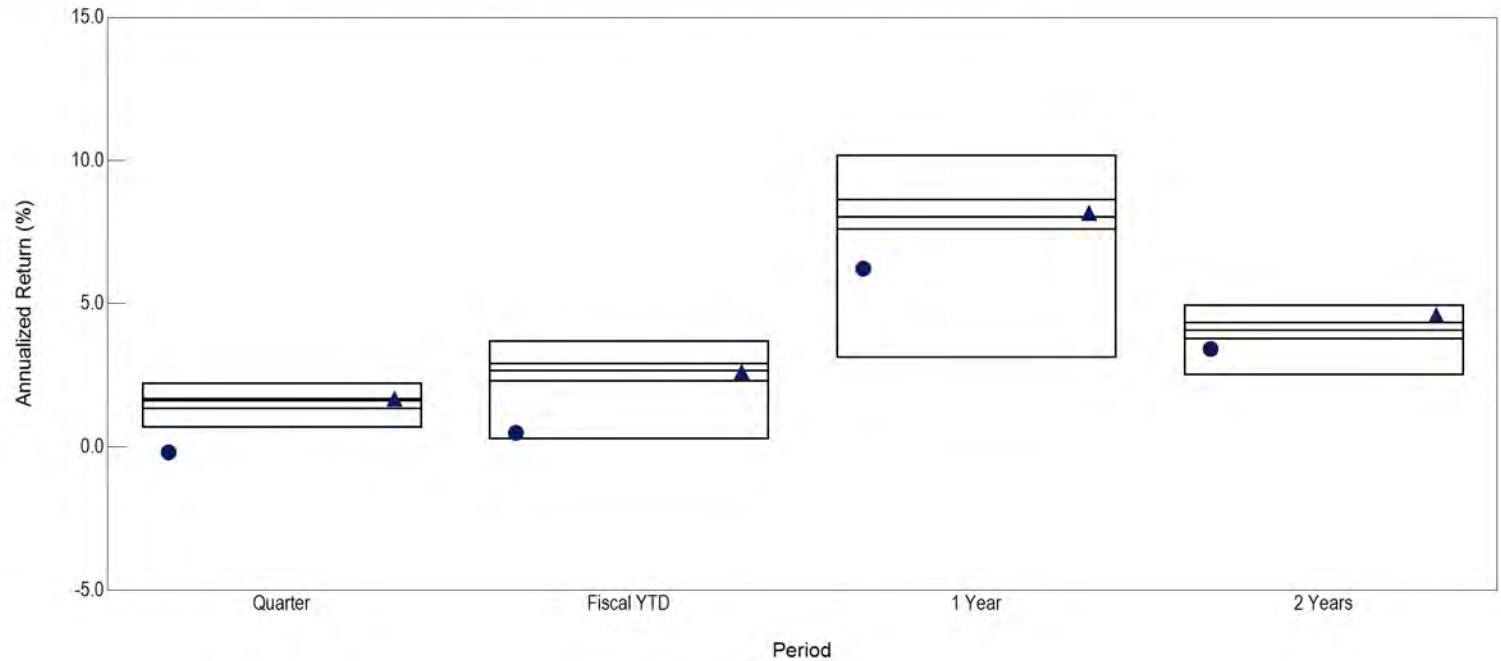
BAIN CAPITAL SENIOR LOAN FUND, LP



Los Angeles City Employees' Retirement System

BAIN CAPITAL SENIOR LOAN FUND, LP

Bain Capital Senior Loan Fund, LP vs. eV US Float-Rate Bank Loan Fixed Inc Net

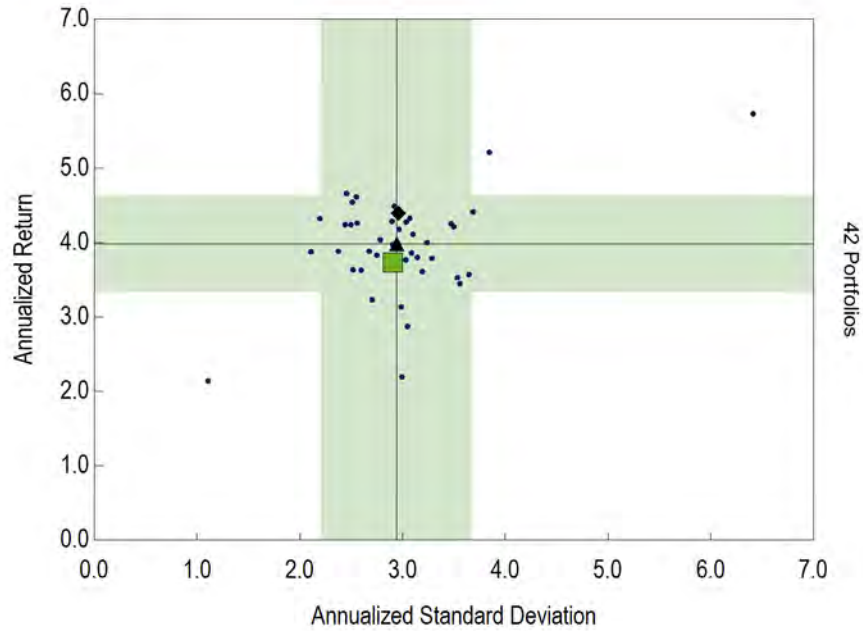


	Return (Rank)			
	Quarter	Fiscal YTD	1 Year	2 Years
5th Percentile	2.20	3.70	10.17	4.94
25th Percentile	1.71	2.94	8.67	4.36
Median	1.63	2.68	8.05	4.09
75th Percentile	1.35	2.34	7.63	3.80
95th Percentile	0.72	0.30	3.15	2.54
# of Portfolios	44	44	44	44
● Bain Capital Senior Loan Fund, LP	-0.20 (99)	0.48 (95)	6.22 (87)	3.41 (87)
▲ Credit Suisse Leveraged Loans	1.68 (37)	2.61 (61)	8.17 (45)	4.60 (12)

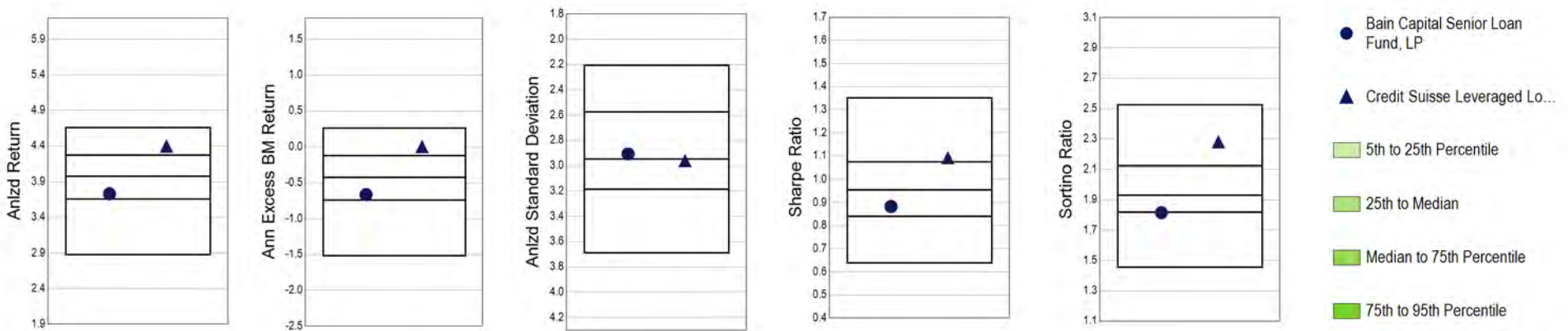
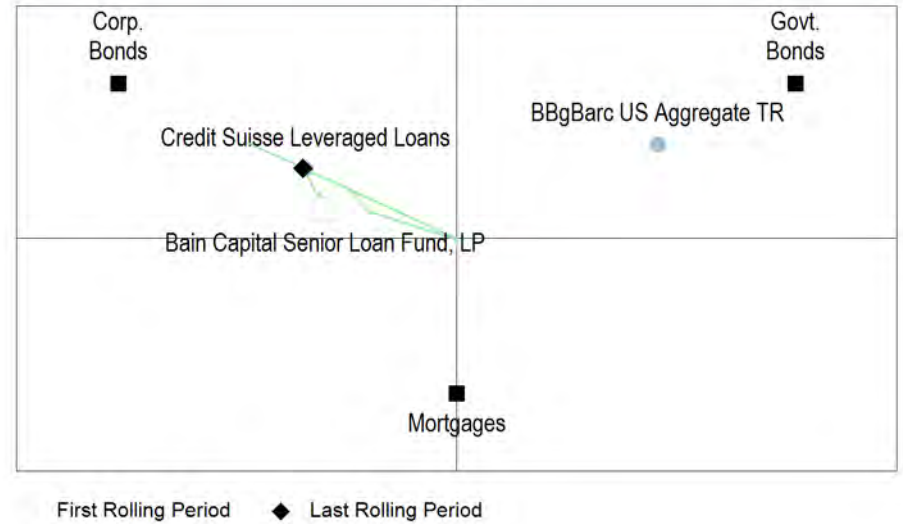


BAIN CAPITAL SENIOR LOAN FUND, LP

Since Inception Risk Return



Since Inception Style Map



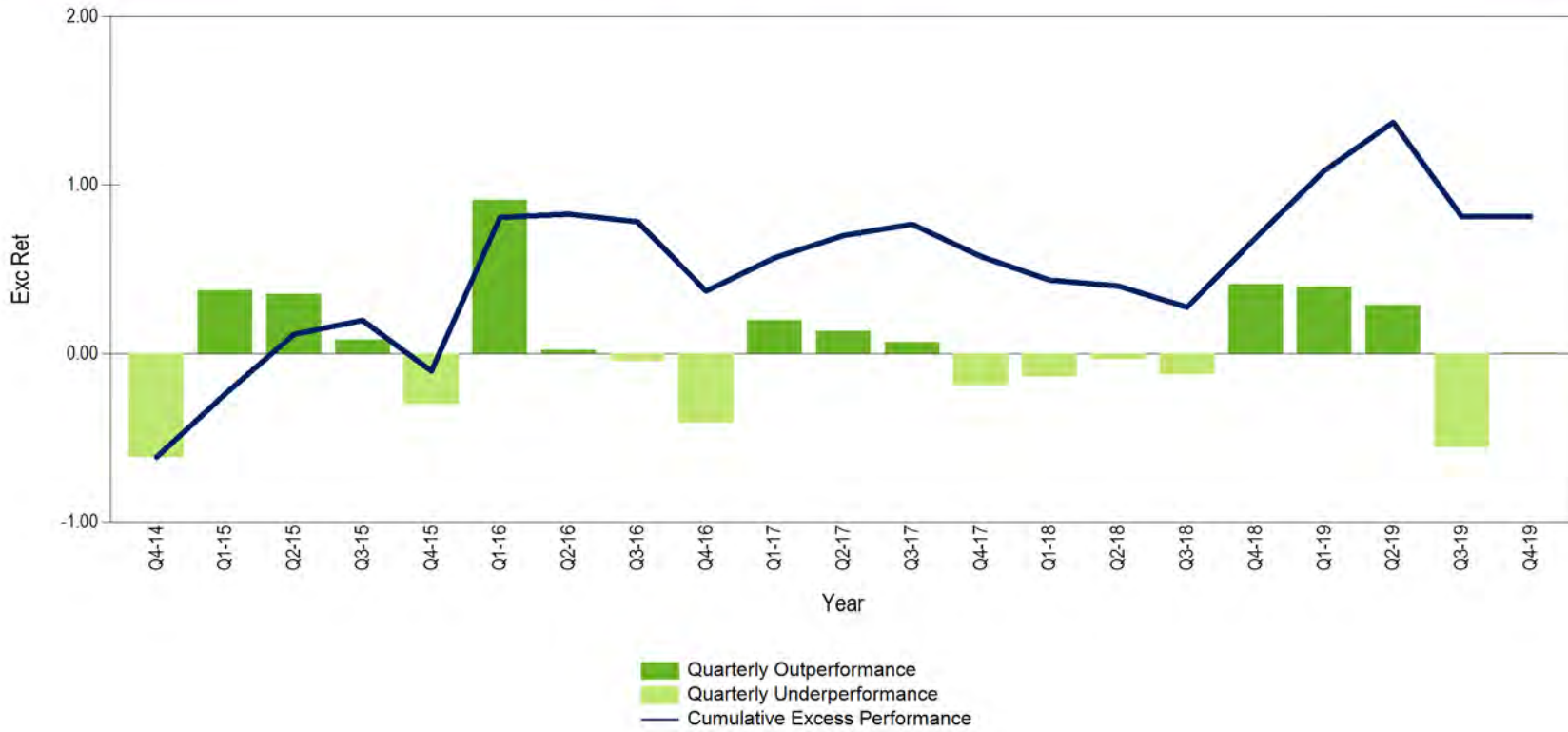
REAL ASSETS MANAGER PERFORMANCE

NEPC, LLC

Los Angeles City Employees' Retirement System

DFA US TIPS

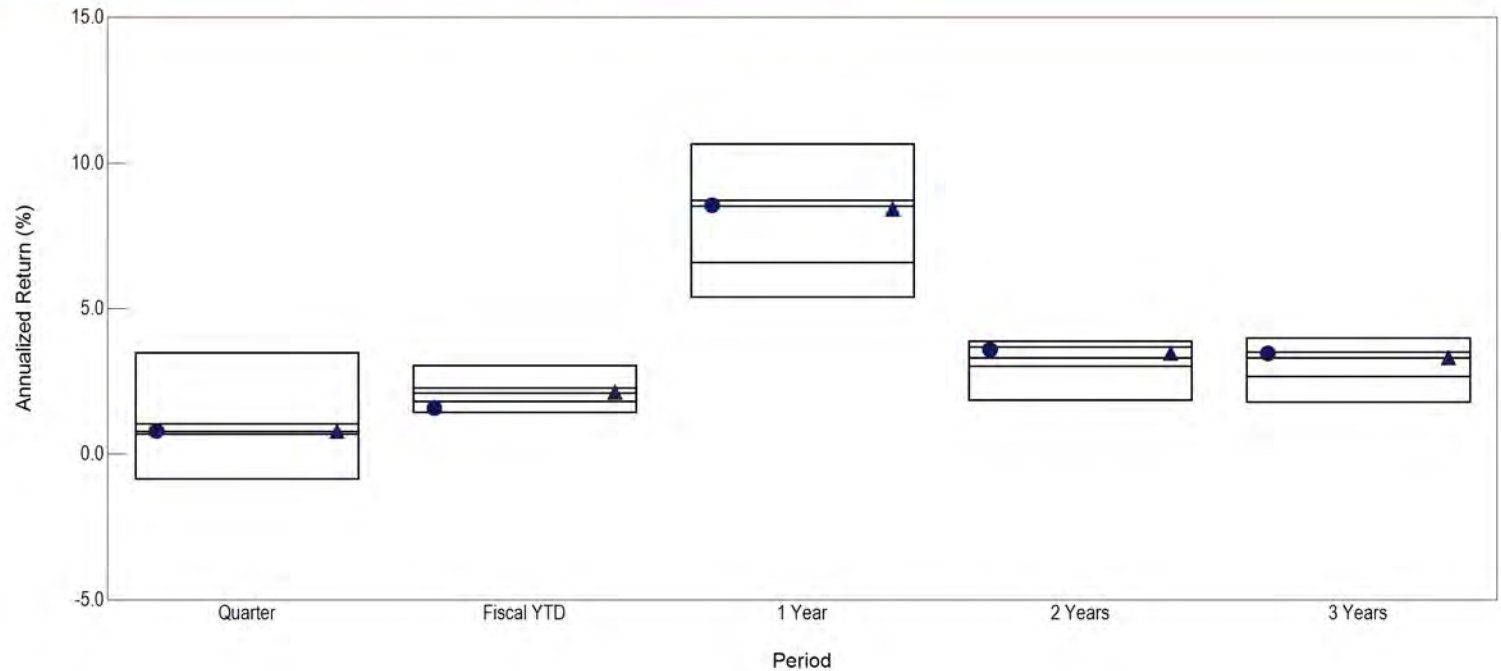
Quarterly and Cumulative Excess Performance



Los Angeles City Employees' Retirement System

DFA US TIPS

DFA US TIPS vs. eV US TIPS / Inflation Fixed Inc Net



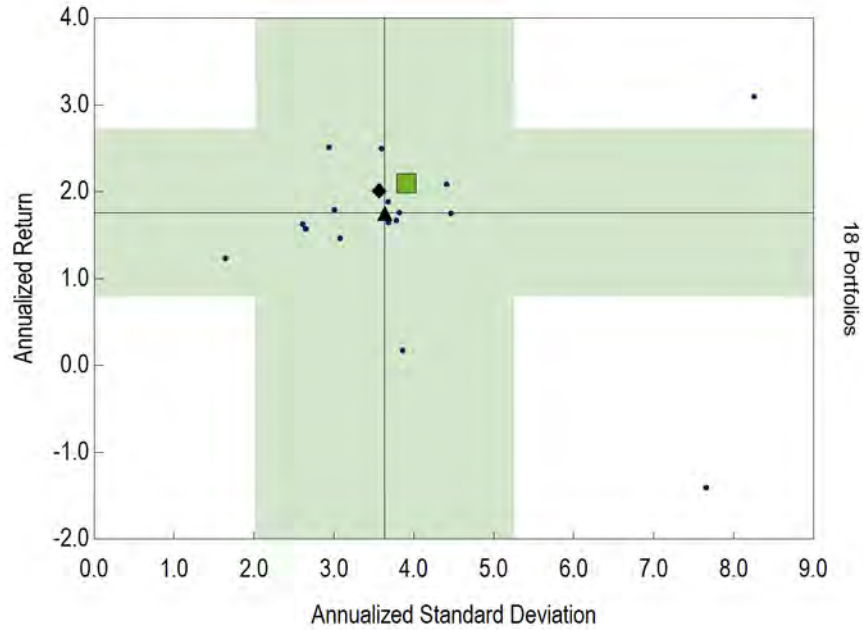
	Return (Rank)									
5th Percentile	3.48		3.04		10.65		3.88		3.99	
25th Percentile	1.06		2.29		8.74		3.69		3.53	
Median	0.79		2.11		8.55		3.33		3.33	
75th Percentile	0.71		1.82		6.61		3.04		2.70	
95th Percentile	-0.83		1.45		5.42		1.87		1.81	
# of Portfolios	19		19		19		19		19	
● DFA US TIPS	0.79	(50)	1.58	(84)	8.55	(48)	3.58	(30)	3.46	(29)
▲ BbgBarc US TIPS TR	0.79	(50)	2.14	(42)	8.43	(54)	3.47	(33)	3.31	(52)



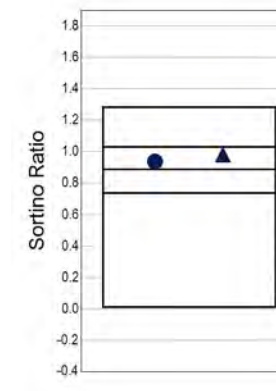
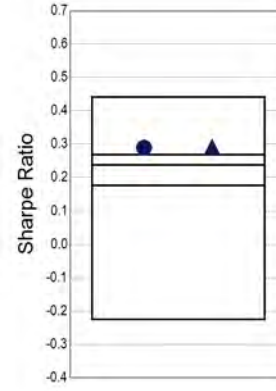
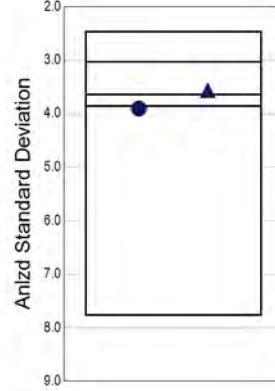
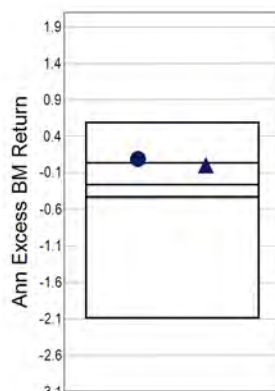
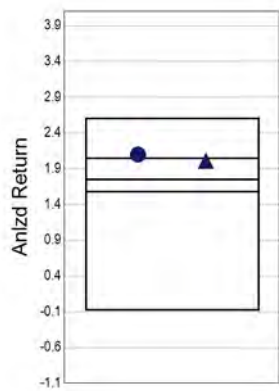
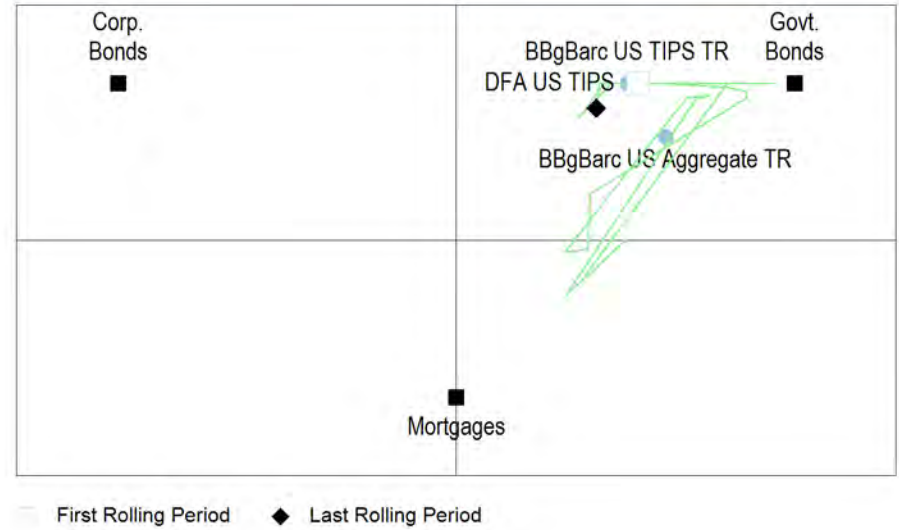
Los Angeles City Employees' Retirement System

DFA US TIPS

Since Inception Risk Return



Since Inception Style Map

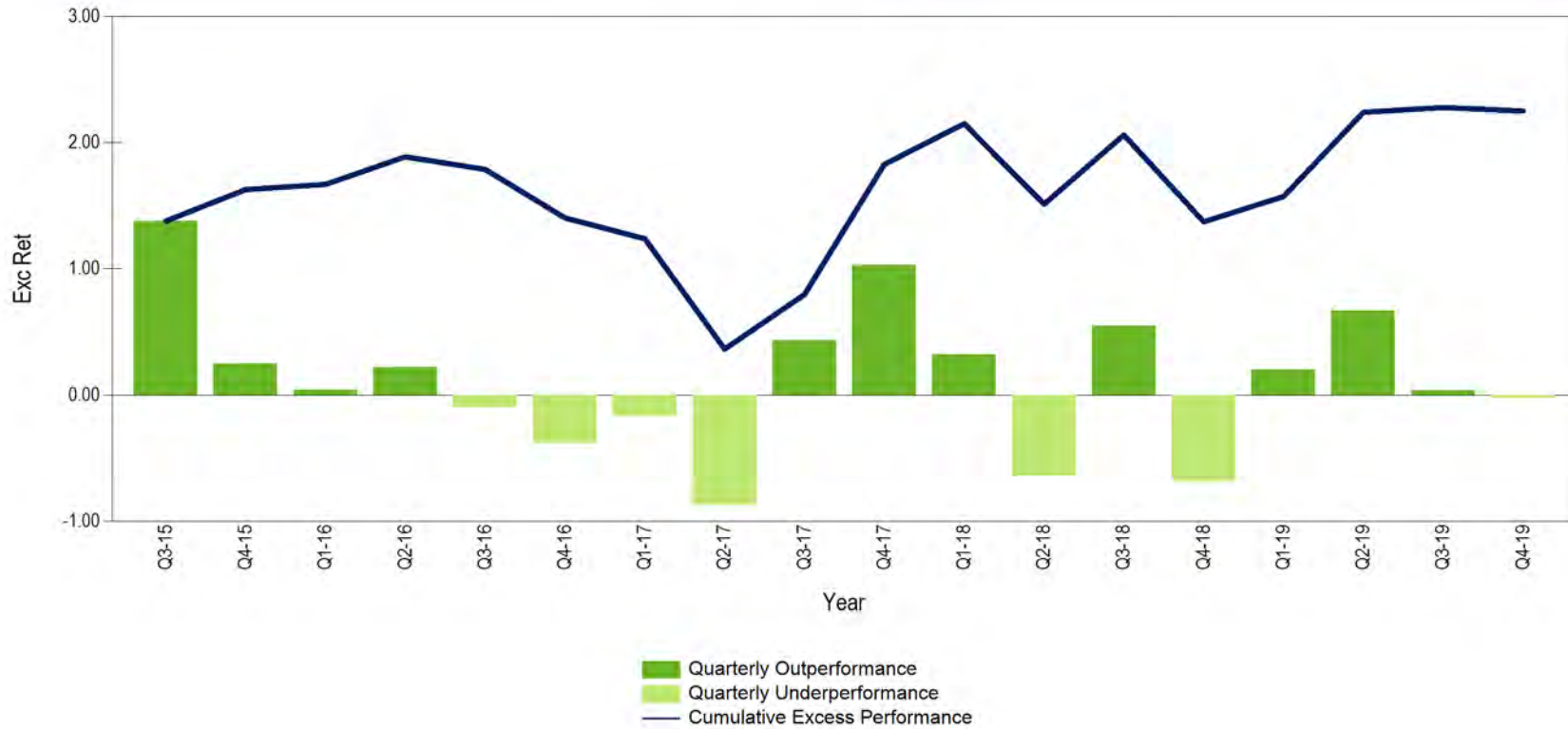


- DFA US TIPS
- ▲ BBgBarc US TIPS TR
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



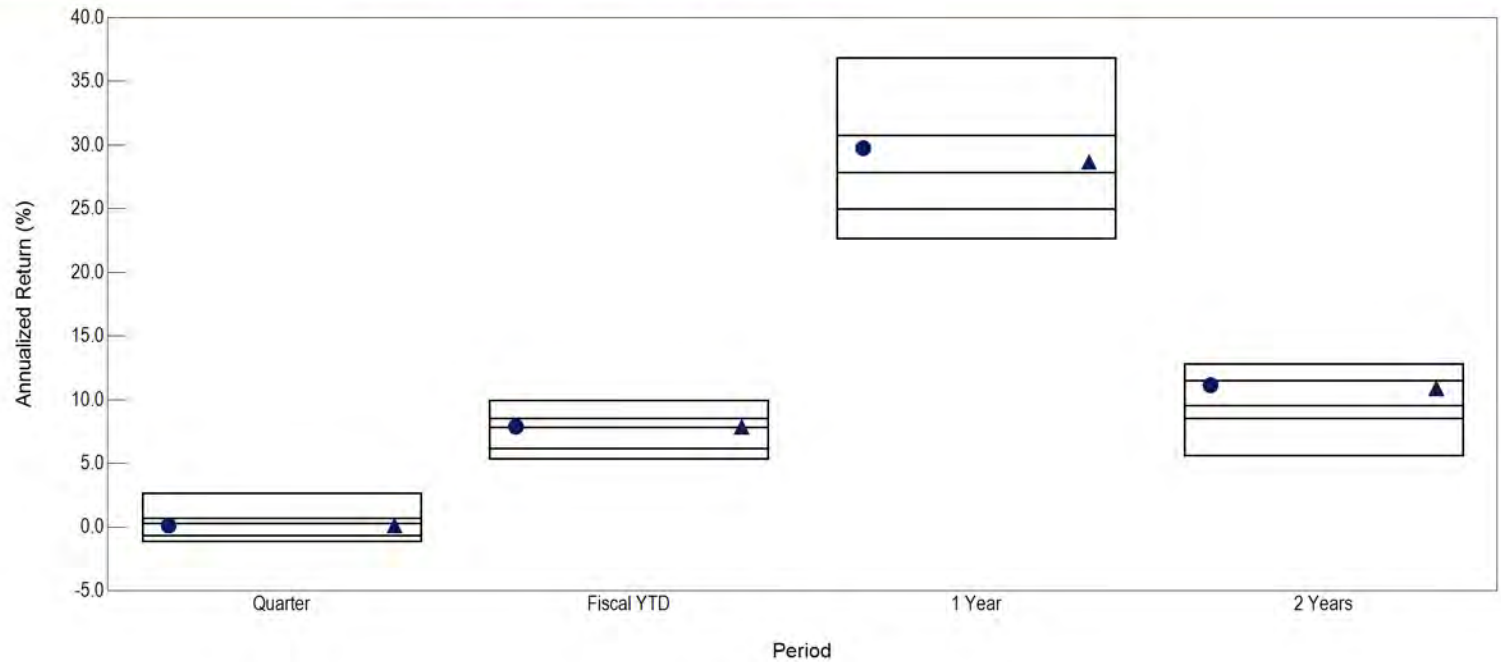
CENTERSQUARE US REAL ESTATE

Quarterly and Cumulative Excess Performance



CENTERSQUARE US REAL ESTATE

CenterSquare US Real Estate vs. eV US REIT Net

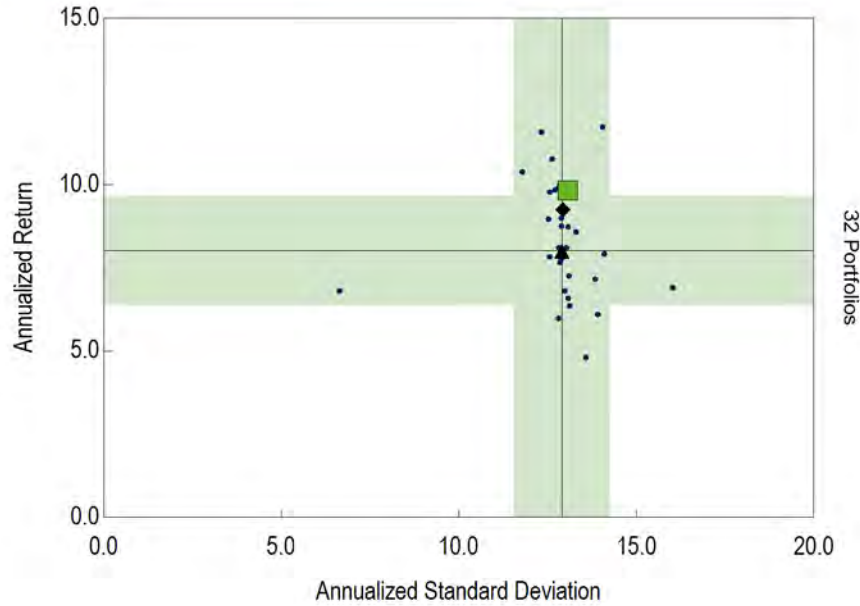


	Return (Rank)							
5th Percentile	2.65		9.93		36.83		12.80	
25th Percentile	0.75		8.57		30.81		11.56	
Median	0.31		7.89		27.88		9.57	
75th Percentile	-0.65		6.23		25.03		8.60	
95th Percentile	-1.08		5.40		22.70		5.64	
# of Portfolios	35		35		33		33	
● CenterSquare US Real Estate	0.11	(54)	7.88	(51)	29.74	(32)	11.13	(29)
▲ FTSE NAREIT All Equity REIT	0.13	(53)	7.87	(51)	28.66	(41)	10.91	(29)

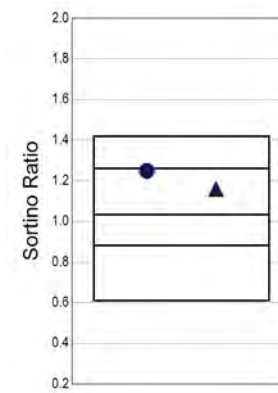
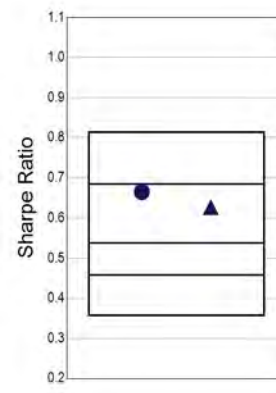
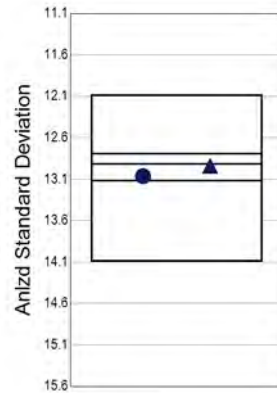
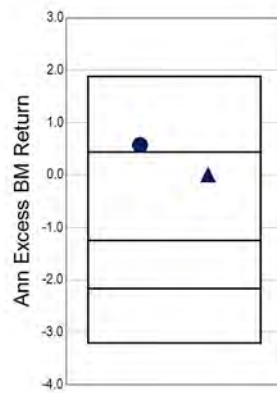
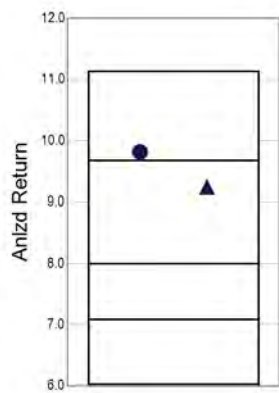
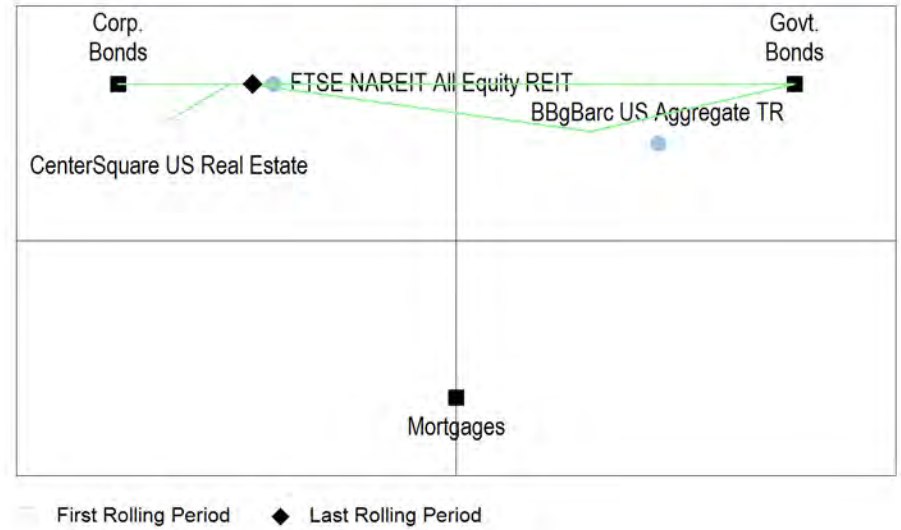


CENTERSQUARE US REAL ESTATE

Since Inception Risk Return



Since Inception Style Map



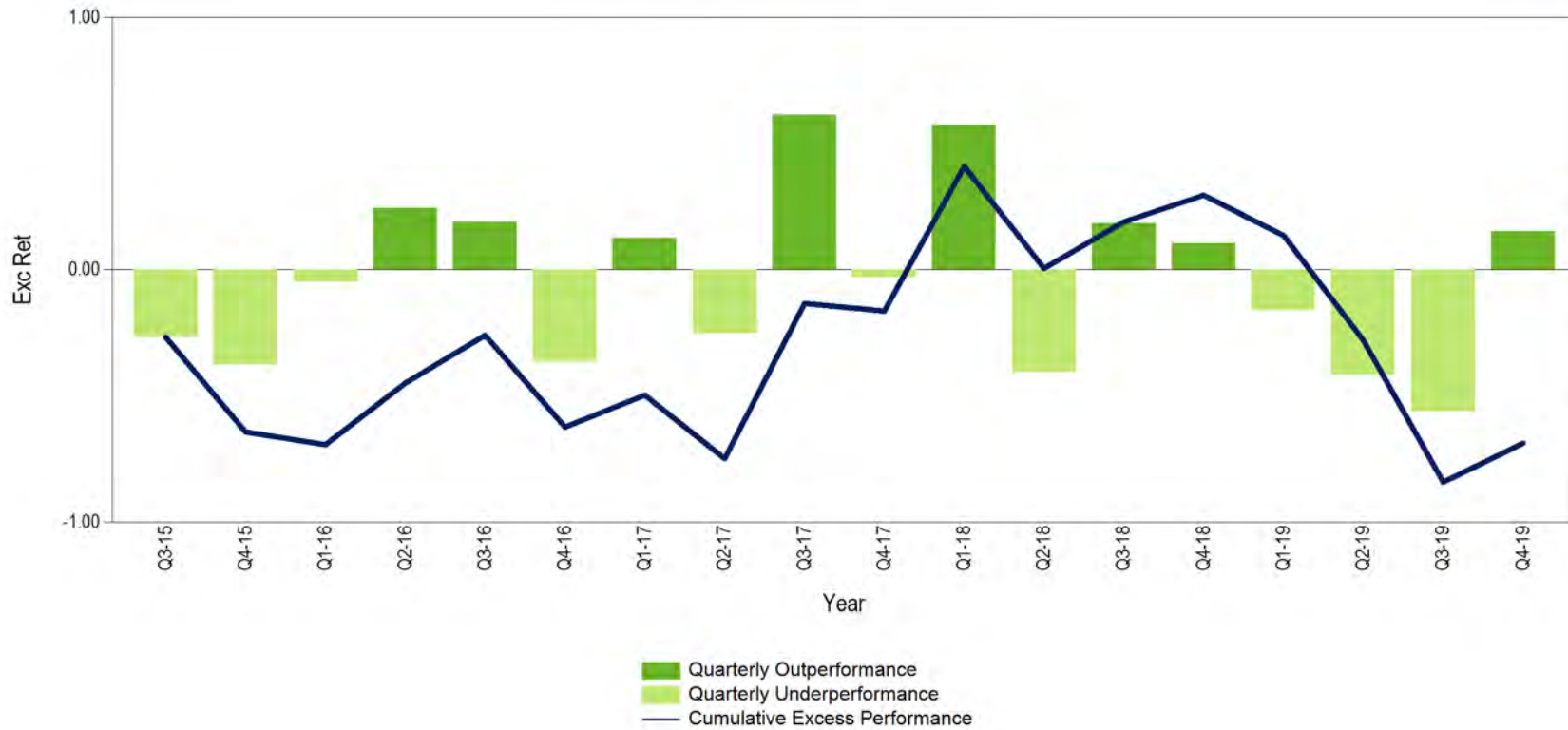
- CenterSquare US Real Estate
- ▲ FTSE NAREIT All Equity REIT
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



Los Angeles City Employees' Retirement System

CORE COMMODITY MGMT

Quarterly and Cumulative Excess Performance



DEFINITIONS

NEPC, LLC

POLICY INDEX DEFINITIONS

Policy Index: Current (adopted January 10, 2012) 24% Russell 3000 Index, 29% MSCI ACWI ex USA Net Index, 19% Bbg Barclays U.S. Aggregate Bond Index, 5% Credit Opportunities Blend, 10% Real Assets Blend, 12% Private Equity Blend, 1% Citi 3 Month T-Bill Index

U.S. Equity Blend: July 1, 2011 - Current: Russell 3000 Index; September 30, 1994 - December 31, 1999 S&P 500 Index 33.75, Russell 1000 Value Index 35%, Russell 1000 Growth 12.5%, Russell 2000 Value 12.5%, Russell 2000 Growth 6.25%

Core Fixed Income Blend: July 1, 2013 – Current: Bbg Barclays U.S. Aggregate Bond Index

Credit Opportunities Blend: 65% Bbg Barclays U.S. HY 2% Cap Index, 35% JPM EMBIGD Index

Public Real Assets Blend: 60% Bbg Barclays U.S. TIPS Index, 20% Bbg Commodity Index, 10% FTSE NAREIT All Equity Index, 10% Alerian MLP Index

Real Estate Blend: July 1, 2014 - Current NCREIF ODCE + 0.80%; July 1, 2012 - June 30, 2014 NCREIF Property Index Lagged +1%; October 1, 1994 - June 30, 2012 NCREIF Property Index Lagged

Private Equity Blend: February 1, 2012 – current: Russell 3000 + 3%; Inception – January 31, 2012: Russell 3000 + 4%

Note: Policy index definitions do not reflect the updated target asset allocation adopted on April 10, 2018.

Note: See Investment Policy for a full description of the indices listed.



GLOSSARY OF INVESTMENT TERMINOLOGY

Of Portfolios/Observations¹ - The total number of data points that make up a specified universe

Allocation Index³ - The allocation index measures the value added (or subtracted) to each portfolio by active management. It is calculated monthly: The portfolio asset allocation to each category from the prior month-end is multiplied by a specified market index.

Asset Allocation Effect² - Measures an investment manager's ability to effectively allocate their portfolio's assets to various sectors. The allocation effect determines whether the overweighting or underweighting of sectors relative to benchmark contributes positively or negatively to the overall portfolio return. Positive allocation occurs when the portfolio is over weighted in a sector that outperforms the benchmark and underweighted in a sector that underperforms the benchmark. Negative allocation occurs when the portfolio is over weighted in a sector that underperforms the benchmark and under weighted in a sector that outperforms the benchmark.

Agency Bonds (Agencies)³ - The full faith and credit of the United States government is normally not pledged to payment of principal and interest on the majority of government agencies issuing these bonds, with maturities of up to ten years. Their yields, therefore, are normally higher than government and their marketability is good, thereby qualifying them as a low risk-high liquidity type of investment. They are eligible as security for advances to the member banks by the Federal Reserve, which attests to their standing.

Asset Backed Securities (ABS)³ - Bonds which are similar to mortgage-backed securities but are collateralized by assets other than mortgages; commonly backed by credit card receivables, auto loans, or other types of consumer financing.

Attribution³ - Attribution is an analytical technique that allows us to evaluate the performance of the portfolio relative to the benchmark. A proper attribution tells us where value was added or subtracted as a result of the manager's decisions.

Average Effective Maturity⁴ - For a single bond, it is a measure of maturity that takes into account the possibility that a bond might be called back to the issuer.

For a portfolio of bonds, average effective maturity is the weighted average of the maturities of the underlying bonds. The measure is computed by weighing each bond's maturity by its market value with respect to the portfolio and the likelihood of any of the bonds being called. In a pool of mortgages, this would also account for the likelihood of prepayments on the mortgages.

Batting Average¹ - A measurement representing an investment manager's ability to meet or beat an index.

Formula: Divide the number of days (or months, quarters, etc.) in which the manager beats or matches the index by the total number of days (or months, quarters, etc.) in the period of question and multiply that factor by 100.

Brinson Fachler (BF) Attribution¹ - The BF methodology is a highly accepted industry standard for calculating the allocation, selection, and interaction effects within a portfolio that collectively explains a portfolio's underlying performance. The main advantage of the BF methodology is that rather than using the overall return of the benchmark, it goes a level deeper than BHB and measures whether the benchmark sector, country, etc. outperformed/or underperformed the overall benchmark.

Brinson Hood Beebower (BHB) Attribution¹ - The BHB methodology shows that excess return must be equal to the sum of all other factors (i.e., allocation effect, selection effect, interaction effect, etc.). The advantage to using the BHB methodology is that it is a highly accepted industry standard for calculating the allocation, selection, and interaction effects within a portfolio that collectively explains a portfolio's underlying performance.

Corporate Bond (Corp)⁴ - A debt security issued by a corporation and sold to investors. The backing for the bond is usually the payment ability of the company, which is typically money to be earned from future operations. In some cases, the company's physical assets may be used as collateral for bonds.

Correlation¹ - A range of statistical relationships between two or more random variables or observed data values. A correlation is a single number that describes the degree of relationship between variables.

Data Source: ¹InvestorForce, ²Interaction Effect Performance Attribution, ³NEPC, LLC, ⁴Investopedia, ⁵Hedgeco.net



GLOSSARY OF INVESTMENT TERMINOLOGY

Coupon⁴ – The interest rate stated on a bond when it is issued. The coupon is typically paid semiannually. This is also referred to as the "coupon rate" or "coupon percent rate."

Currency Effect¹ – Is the effect that changes in currency exchange rates over time affect excess performance.

Derivative Instrument² – A financial obligation that derives its precise value from the value of one or more other instruments (or assets) at the same point of time. For example, the relationship between the value of an S&P 500 futures contract (the derivative instrument in this case) is determined by the value of the S&P 500 Index and the value of a U.S. Treasury bill that matures at the expiration of the futures contract.

Downside Deviation¹ – Equals the standard deviation of negative return or the measure of downside risk focusing on the standard deviation of negative returns.

Formula:

Annualized Standard Deviation (Fund Return - Average Fund Return) where average fund return is greater than individual fund returns, monthly or quarterly.

Duration³ – Duration is a measure of interest rate risk. The greater the duration of a bond, or a portfolio of bonds, the greater its price volatility will be in response to a change in interest rates. A bond's duration is inversely related to interest rates and directly related to time to maturity.

Equity/Debt/Cash Ratio¹ – The percentage of an investment or portfolio that is in Equity, Debt, and/or Cash (i.e. A 7/89/4 ratio represents an investment that is made up of 7% Equity, 89% Debt, and 4% Cash).

Foreign Bond³ – A bond that is issued in a domestic market by a foreign entity, in the domestic market's currency. A foreign bond is most often issued by a foreign firm to raise capital in a domestic market that would be most interested in purchasing the firm's debt. For foreign firms doing a large amount of business in the domestic market, issuing foreign bonds is a common practice.

Hard Hurdle⁵ – is a hurdle rate that once beaten allows a fund manager to charge a performance fee on only the funds above the specified hurdle rate.

High-Water Mark⁴ – The highest peak in value that an investment fund/account has reached. This term is often used in the context of fund manager compensation, which is performance based. Some performance-based fees only get paid when fund performance exceeds the high-water mark. The high-water mark ensures that the manager does not get paid large sums for poor performance.

Hurdle Rate⁴ – The minimum rate of return on an investment required, in order for a manager to collect incentive fees from the investor, which is usually tied to a benchmark.

Interaction Effects² – The interaction effect measures the combined impact of an investment manager's selection and allocation decisions within a sector. For example, if an investment manager had superior selection and over weighted that particular sector, the interaction effect is positive. If an investment manager had superior selection, but underweighted that sector, the interaction effect is negative. In this case, the investment manager did not take advantage of the superior selection by allocating more assets to that sector. Since many investment managers consider the interaction effect to be part of the selection or the allocation, it is often combined with the either effect.

Median³ – The value (rate of return, market sensitivity, etc.) that exceeds one-half of the values in the population and that is exceeded by one-half of the values. The median has a percentile rank of 50.

Modified Duration³ – The percentage change in the price of a fixed income security that results from a change in yield.

Mortgage Backed Securities (MBS)³ – Bonds which are a general obligation of the issuing institution but are also collateralized by a pool of mortgages.

Municipal Bond (Muni)⁴ – A debt security issued by a state, municipality or county to finance its capital expenditures.

Net Investment Change¹ – Is the change in an investment after accounting for all Net Cash Flows.

Performance Fee⁴ – A payment made to a fund manager for generating positive returns. The performance fee is generally calculated as a percentage of investment profits, often both realized and unrealized.

Data Source: ¹InvestorForce, ²Interaction Effect Performance Attribution, ³NEPC, LLC, ⁴Investopedia, ⁵Hedgeco.net



GLOSSARY OF INVESTMENT TERMINOLOGY

Policy Index³ - A custom benchmark designed to indicate the returns that a passive investor would earn by consistently following the asset allocation targets set forth in this investment policy statement.

Price to Book (P/B)⁴ - A ratio used to compare a stock's market value to its book value. It is calculated by dividing the current closing price of the stock by the latest quarter's book value per share, also known as the "price-equity ratio".

Price to Earnings (P/E)³ - The weighted equity P/E is based on current price and trailing 12 months earnings per share (EPS).

Price to Sales (P/S)⁴ - A ratio for valuing a stock relative to its own past performance, other companies, or the market itself. Price to sales is calculated by dividing a stock's current price by its revenue per share for the trailing 12 months.

Return on Equity (ROE)⁴ - The amount of net income returned as a percentage of shareholders equity. Return on equity measures a corporation's profitability by revealing how much profit a company generates with the money shareholders have invested.

Selection (or Manager) Effect² - Measures the investment manager's ability to select securities within a given sector relative to a benchmark. The over or underperformance of the portfolio is weighted by the benchmark weight, therefore, selection is not affected by the manager's allocation to the sector. The weight of the sector in the portfolio determines the size of the effect—the larger the sector, the larger the effect is, positive or negative.

Soft Hurdle rate⁵ - is a hurdle rate that once beaten allows a fund manager to charge a performance fee based on the entire annualized return.

Tiered Fee¹ - A fee structure that is paid to fund managers based on the size of the investment (i.e. 1.00% fee on the first \$10M invested, 0.90% on the next \$10M, and 0.80% on the remaining balance).

Total Effects² - The active management (total) effect is the sum of the selection, allocation, and interaction effects. It is also the difference between the total portfolio return and the total benchmark return. You can use the active management effect to determine the amount the investment manager has added to a portfolio's return.

Total Return¹ - The actual rate of return of an investment over a specified time period. Total return includes interest, capital gains, dividends, and distributions realized over a defined time period.

Universe³ - The list of all assets eligible for inclusion in a portfolio.

Upside Deviation¹ - Standard Deviation of Positive Returns

Weighted Avg. Market Cap.⁴ - A stock market index weighted by the market capitalization of each stock in the index. In such a weighting scheme, larger companies account for a greater portion of the index. Most indexes are constructed in this manner, with the best example being the S&P 500.

Yield (%)³ - The current yield of a security is the current indicated annual dividend rate divided by current price.

Yield to Maturity³ - The discount rate that equates the present value of cash flows, both principal and interest, to market price.

Data Source: ¹InvestorForce, ²Interaction Effect Performance Attribution, ³NEPC, LLC, ⁴Investopedia, ⁵Hedgeco.net



DISCLOSURES

NEPC, LLC

Information Disclaimer

- Past performance is no guarantee of future results.
- All investments carry some level of risk. Diversification and other asset allocation techniques are not guaranteed to ensure profit or protect against losses.
- NEPC's source for portfolio pricing, calculation of accruals, and transaction information is the plan's custodian bank. Information on market indices and security characteristics is received from other sources external to NEPC. While NEPC has exercised reasonable professional care in preparing this report, we cannot guarantee the accuracy of all source information contained within.
- Some index returns displayed in this report or used in calculation of a policy, allocation or custom benchmark may be preliminary and subject to change.
- This report is provided as a management aid for the client's internal use only. Information contained in this report does not constitute a recommendation by NEPC.
- This report may contain confidential or proprietary information and may not be copied or redistributed to any party not legally entitled to receive it.

Reporting Methodology

- The client's custodian bank is NEPC's preferred data source unless otherwise directed. NEPC generally reconciles custodian data to manager data. If the custodian cannot provide accurate data, manager data may be used.
- Trailing time period returns are determined by geometrically linking the holding period returns, from the first full month after inception to the report date. Rates of return are annualized when the time period is longer than a year. Performance is presented gross and/or net of manager fees as indicated on each page.
- For managers funded in the middle of a month, the "since inception" return will start with the first full month, although actual inception dates and cash flows are taken into account in all Composite calculations.
- This report may contain forward-looking statements that are based on NEPC's estimates, opinions and beliefs, but NEPC cannot guarantee that any plan will achieve its targeted return or meet other goals.





LACERS

LOS ANGELES CITY EMPLOYEES'
RETIREMENT SYSTEM



REPORT TO BOARD OF ADMINISTRATION

From: Lita Payne, Executive Officer *Lita Payne*

MEETING: MARCH 10, 2020

ITEM: VIII – A

SUBJECT: **DELEGATION OF SUBPOENA REQUEST AUTHORITY FOR UNRECOVERED FUNDS CASES**

ACTION: CLOSED: CONSENT: RECEIVE & FILE:

Recommendation

That the Board delegate administrative authority to the General Manager to request the issuance of subpoenas for member bank account information through the Office of the City Clerk pursuant to Los Angeles City Charter Section 217(b), as it relates to unrecoverable/overpayment funds.

Discussion

On February 11, 2020, staff presented a report to the Board on Aged Deceased Accounts with Unrecoverable Overpayments and the overpayment recovery process. As follow up to the report, the Office of the City Attorney recommended LACERS use the Board's subpoena authority as an additional investigative tool to obtain bank information for purposes of determining who may have had access to a member's direct deposit account in cases involving overpayments. The Board of Administration has subpoena powers pursuant to Los Angeles City Charter Section 217(b). (Attachment 1)

The Board has already delegated subpoena request authority to the General Manager and/or his or her designee for disability retirement hearings. The City Attorney has indicated an additional delegation of authority is required in order for the General Manager to request the issuance of subpoenas beyond the scope of the disability retirement hearing process.

Strategic Plan Impact Statement:

The approval of the above recommendation, to delegate administrative authority to the General Manager, will ensure the accurate and timely delivery of retirement benefits to Members under Strategic Plan Goal II – Benefits Delivery.

This report was prepared by Lady Y. Smith, Senior Management Analyst I, and Ferralyn Sneed, Senior Management Analyst II, Retirement Services Division.

LP/KF:FS:LYS

Attachments: (1) Charter Section 217 (2) Propose Resolution

ATTACHMENT 1

Los Angeles City Charter

Sec. 217. Investigations and Proceedings.

(a) **Administration of Oaths.** The Mayor, Controller, Treasurer, the Zoning Administrator, and each member of the Council and of each board provided for in the Charter, and the secretary of each of those boards, shall have the power to administer oaths and affirmations in any investigation or proceeding pending before any of those officers or bodies, or concerning any demand on the City Treasury, and the City Clerk shall have the power to administer all oaths and affirmations required by the Charter.

(b) **Witnesses and Subpoenas.** The Mayor, Controller, Treasurer, the Zoning Administrator, Council, and each board provided for in the Charter shall have the power and authority to examine witnesses under oath and compel the attendance of witnesses and the production of evidence before them. Upon the request of the Mayor, Controller, Treasurer, President of the Council, or the presiding officer of any board, the City Clerk shall issue subpoenas in the name of the City, attested with the corporate seal, requiring the attendance and testimony of the witness or production of documents at a specified time and place before the Mayor, Controller, Treasurer, Council, or board requesting the subpoena. Nothing in this section shall require Council, any board or officer, or the Zoning Administrator to provide for examination of witnesses under oath in any particular proceeding.

ATTACHMENT 2
SUBPOENA DELEGATION OF AUTHORITY
PROPOSED RESOLUTION

WHEREAS, Charter Section 217(b) grants each board ... *the power and authority to examine witnesses under oath and compel the attendance of witnesses and the production of evidence before them ... the City Clerk shall issue subpoenas in the name of the City, attested with the corporate seal, requiring the attendance and testimony of the witness or production of documents at a specified time and place before the Mayor, Controller, Treasurer, Council, or board requesting the subpoena;*

WHEREAS, Board of Administration Rule HP 12 delegates authority to the General Manager and/or his/her designee(s) to request the City Clerk to issue subpoenas under the provisions of the Charter related to disability retirement hearing;

WHEREAS, Board delegation of authority is required to authorize the General Manager and/or his/her designee(s) to request the City Clerk to issue subpoenas under the provisions of the Charter for specific purposes;

WHEREAS, LACERS wishes to issues subpoenas for bank information to identify joint account holders for purposes of potentially recovering overpayment/unrecovered funds;

WHEREAS, after some discussion and consideration the Board determined such delegation was necessary and in keeping with its' fiduciary responsibilities;

NOW, THEREFORE, BE IT RESOLVED that the Board hereby delegates authority to the General Manager and/or his/her designee(s) to request the City Clerk to issue subpoenas for bank information to identify joint account holders for purposes of potentially recovering overpayment/unrecovered funds.