

### **Firm Overview**



#### **OVERVIEW**

RVK, Inc. ("RVK") was founded in 1985 and is one of the largest independent and employee-owned investment consulting firms in the US, providing world-class investment advice to institutional investors. We serve over 400 plans, including pension plans, defined contribution plans, endowments & foundations, insurance pools, and special purpose funds.

#### **MISSION STATEMENT**

To provide best-in-class investment consulting services to a wide array of sophisticated investors.

#### STRATEGIC INVESTMENT ADVICE WITH NO CONFLICTS OF INTEREST

RVK built its investment consulting practice on the principles of integrity, investment knowledge, client service, and our no conflicts of interest policy. We are exclusively focused on strategic investment consulting services and solely owned by active employees, enabling us to offer advice that is not influenced by other business activities. As a privately-held firm, with no affiliates or parent company, we provide informed and unbiased investment advice to our clients. We offer an extensive slate of consulting services and produce deliverables fully customized to meet each client's needs.

#### **KEY TENETS OF OUR CULTURE**



www.RVKInc.com

503-221-4200

Portland

New York

Chicao



#### **RVK BY THE NUMBERS**

- 30+ years of business
- 3 offices Portland, Chicago, New York
- \$800+ billion Full-Retainer AUA
- 90+ Investment Professionals
- **50+** Advanced Degrees and Certifications
- 100% Employee Ownership
- 100% Revenue Derived from Client Fees
- 100% Non-Discretionary Services

#### **GENERAL CONSULTING SERVICES**

- Plan Evaluation
- Strategic Asset Allocation
- Investment Policy Development & Review
- Investment Manager Search & Selection
- Performance Analysis & Reporting
- Manager Structure Analysis
- Risk Monitoring and Management
- Client Education
- Special Projects

#### **SPECIALTY CONSULTING SERVICES**

- Strategic Planning Reviews
- Custody, Record keeper, Third-Party Administrator Searches
- Asset/Liability Studies
- Endowment Spending Policy Studies
- Securities Lending Reviews
- Pacing Studies

- Outsourced CIO ("OCIO") Searches, Evaluation, and Ongoing Monitoring
- Directed Consulting Services
- Fee Reviews
- Defined Contribution Solutions Services
- Investment Operations Solutions
- Board and Investment Program Operational Reviews

#### FOR MORE INFORMATION ABOUT OUR SERVICES, PLEASE CONTACT:

Business.Development@RVKInc.com 503-221-4200

www.RVKInc.com

503-221-4200

Portlan

New York

Chicag

Fund Number: 49 As of June 30, 2017

**Participants** 

Alameda County Employees' Retirement Association Anchorage Police & Fire Retirement System

Arlington County Employees' Retirement System California State Teachers' Retirement System

City of Austin Employees' Retirement System City of Fresno Retirement Systems

City of Milwaukee Employes' Retirement System City of Plano Other Post-Employment Benefits Trust

City of Plano Retirement Security Plan Civilian Employees' Retirement System of the Police Department of Kansas City,

Missouri

Colorado Public Employees' Retirement Association Confederated Tribes of the Warm Springs Tribal Council Pension Fund

County Employees' Annuity & Benefit Fund of Cook County

Educational Employees' Supplementary Retirement System of Fairfax County

Fire & Police Employees' Retirement System of Baltimore

Florida State Board of Administration

Fresno County Employees' Retirement Association

Gila River Indian Community Retirement Plan

Imperial County Employees' Retirement System

Kansas City, Missouri Employees' Retirement System

Kentucky Retirement Systems

Kern County Employees' Retirement Association

Los Angeles County Employees Retirement Association

Los Angeles Water & Power Employees Retirement Plan

Maryland State Retirement and Pension System

Merced County Employees' Retirement Association

Montana Teachers' Retirement System

Municipality of Anchorage Pre-Funding Program

Nevada Public Employees' Retirement System

Newport News Employees' Retirement Fund

Ohio Public Employees' Retirement System

Pennsylvania Public School Employees' Retirement System

Police Retirement System of Kansas City, Missouri

Public School and Education ERS of Missouri

Contra Costa County Employees' Retirement Association

District of Columbia Retirement Board

**Employees Retirement System of Texas** 

Fire and Police Pension Association of Colorado

Fort Worth Employees' Retirement Fund

Georgia Division of Investment Services

Illinois Municipal Retirement Fund

Iowa Public Employees' Retirement System

Kansas Public Employees' Retirement System

Kentucky Teachers' Retirement System

Los Angeles City Employees' Retirement System

Los Angeles Fire and Police Pension System

Marin County Employees' Retirement Association

Mendocino County Employees' Retirement Association (49)

Montana Public Employees' Retirement System

Municipal Employees' Annuity and Benefit Fund of Chicago

Nebraska Investment Council

New York State Common Retirement Fund

North Carolina Retirement System

Orange County Employees' Retirement System

Pennsylvania State Employees' Retirement System

Public Employees Retirement Association of New Mexico

Sacramento County Employees' Retirement System



**Participants** 

San Diego City Employees' Retirement System

San Diego Transit Corporation Employees Retirement

San Mateo County Employees' Retirement Association

Sonoma County Employees' Retirement Association

Stanislaus County Employees' Retirement Association

State Teachers Retirement System of Ohio

Teachers' Retirement System of Louisiana

Texas Municipal Retirement System

Tulare County Employees' Retirement Association

Virginia Retirement System

Wyoming Retirement System

San Bernardino County Employees' Retirement Association

San Diego County Employees Retirement Association

San Joaquin County Employees' Retirement Association

Santa Barbara County Employees' Retirement System

South Dakota Retirement System

State of Michigan Retirement Systems

State Universities Retirement System of Illinois

Teachers' Retirement System of the State of Illinois

The Navajo Nation Retirement Plan

Ventura County Employees' Retirement Association

West Virginia Investment Management Board

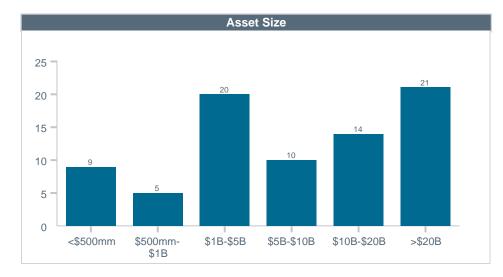


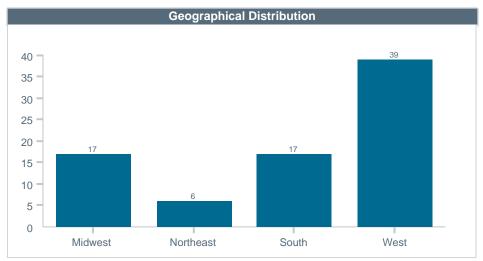
# **Report and Firm Summary**

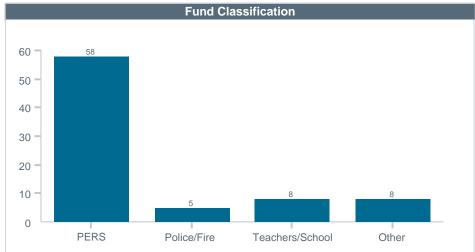
The following report is a compilation of data provided to RVK, Inc. by 79 public funds throughout the United States. We are a registered investment advisor with the Securities Exchange Commission under the Investment Advisors Act of 1940. Our firm provides investment consulting services to nearly 200 clients across more than 460 plans with total assets under advisement in excess of \$2.1 trillion. The confidentiality of participants is maintained by revealing the fund name only to each individual fund. For more information about services provided by RVK, please visit our website at www.RVKInc.com.

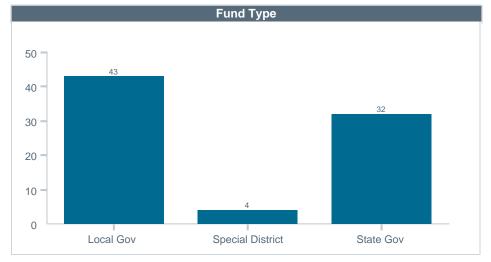


**Universe Characteristics** 







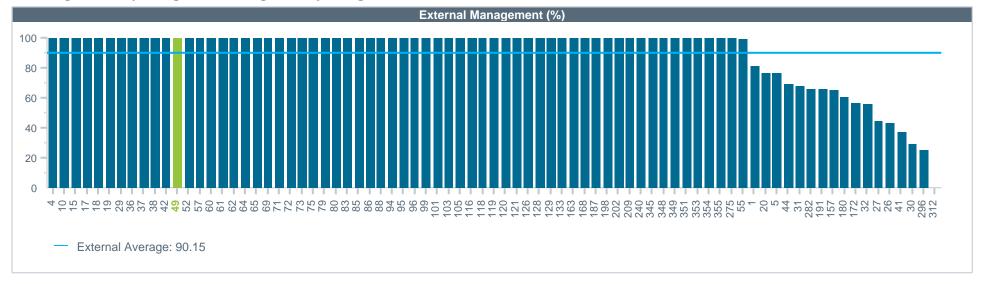


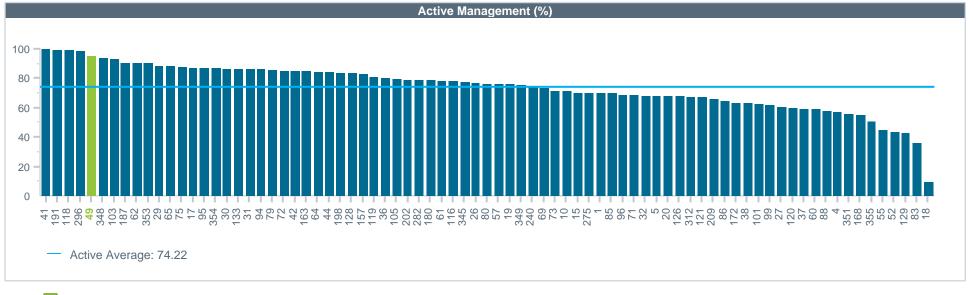
Universe: 79 funds



Portfolio Management

Percentage Externally Managed & Percentage Actively Managed









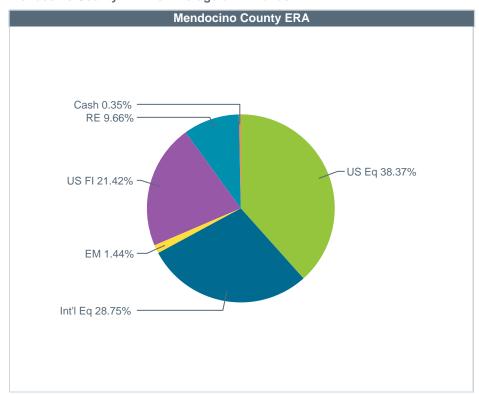
#### Fund Number: 49 Portfolio Management Statistics

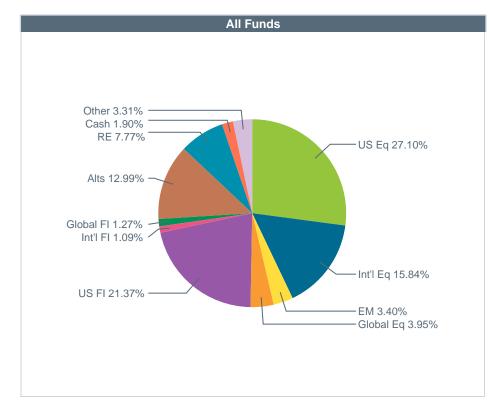
	Actively Managed (%)	Passively Managed (%)	Externally Managed (%)	Internally Managed (%)
Asset Range				
Over \$20B	74.88	25.12	75.88	24.12
\$10B-\$20B	70.66	29.34	84.00	16.00
\$5B-\$10B	71.13	28.87	97.67	2.33
\$1B-\$5B	74.13	25.87	98.83	1.17
\$500mm-\$1B	72.74	27.26	99.88	0.12
Under \$500mm	82.63	17.37	100.00	0.00
Mendocino County ERA	94.96	5.04	100.00	0.00

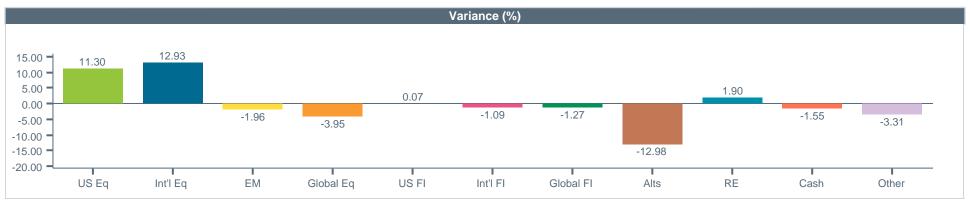
	Active Ma	Active Management		External Management		
Portfolio (%)	Public Fund Universe	Mendocino County ERA	Public Fund Universe	Mendocino County ERA		
90 to 100	10	1	62	1		
50 to 89	64	0	11	0		
10 to 49	4	0	5	0		
Less than 10	1	0	1	0		
Total Funds Reporting	79	1	79	1		



Asset Allocation
Mendocino County ERA vs. Average of All Funds



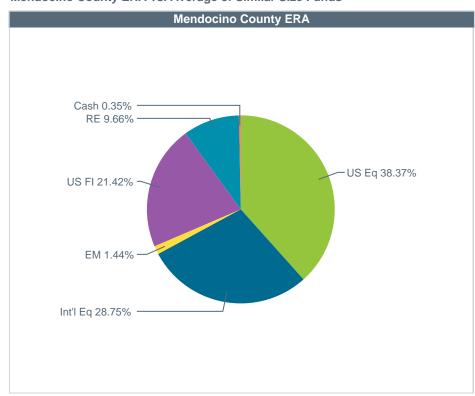


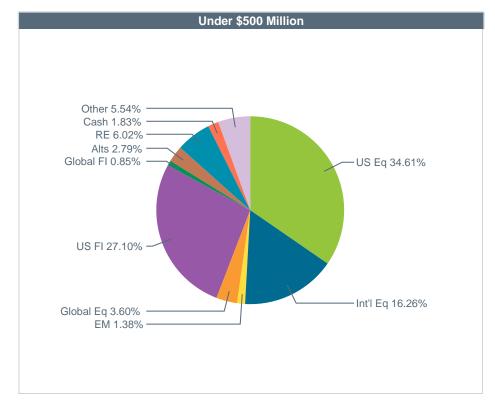


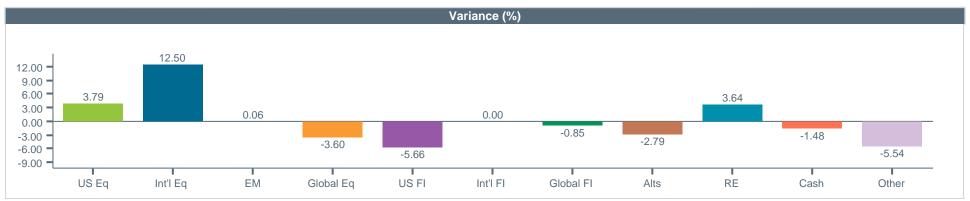
Allocations shown may not sum up to 100% exactly due to rounding.



Asset Allocation
Mendocino County ERA vs. Average of Similar Size Funds





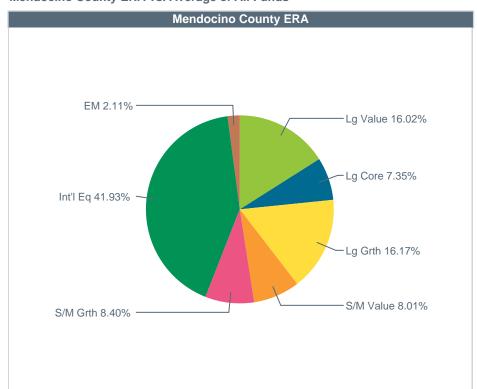


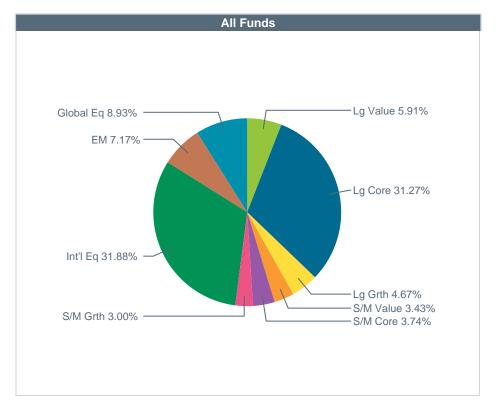


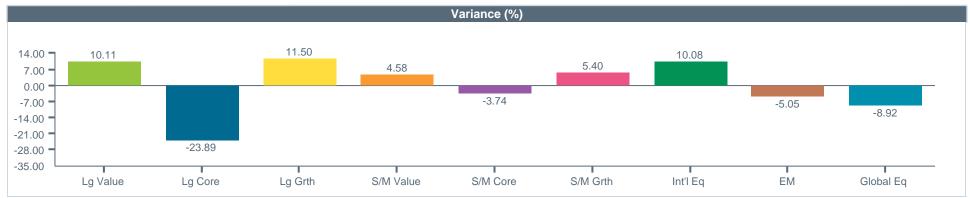


Equity Style Allocation

Mendocino County ERA vs. Average of All Funds







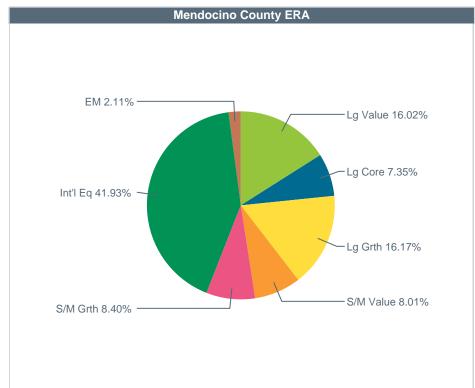
Allocations shown may not sum up to 100% exactly due to rounding.

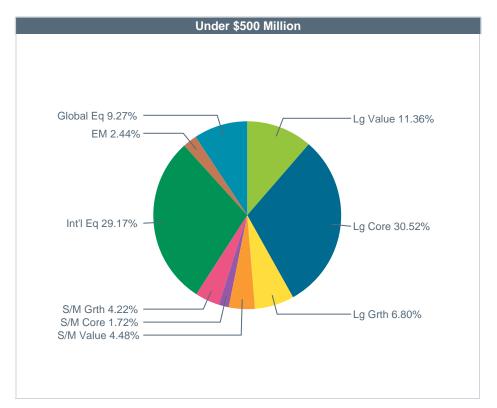


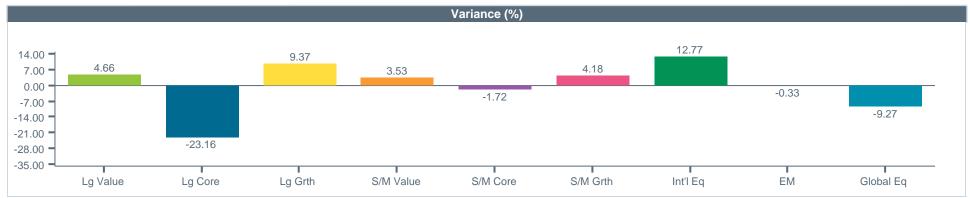
Equity Style Allocation

Mendocino County FRA vs. Average of Sin

 $\label{eq:mendocino} \textbf{Mendocino County ERA vs. Average of Similar Size Funds}$ 





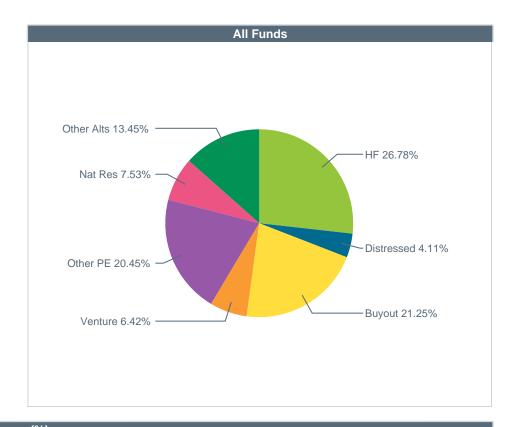


Allocations shown may not sum up to 100% exactly due to rounding.



Mendocino County ERA

Mendocino County ERA does not have data for Alternatives Style Allocation



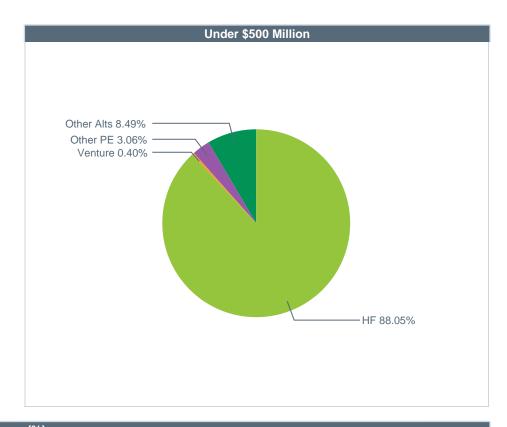
Variance (%)

Mendocino County ERA does not have data for Alternatives Style Allocation



Mendocino County ERA

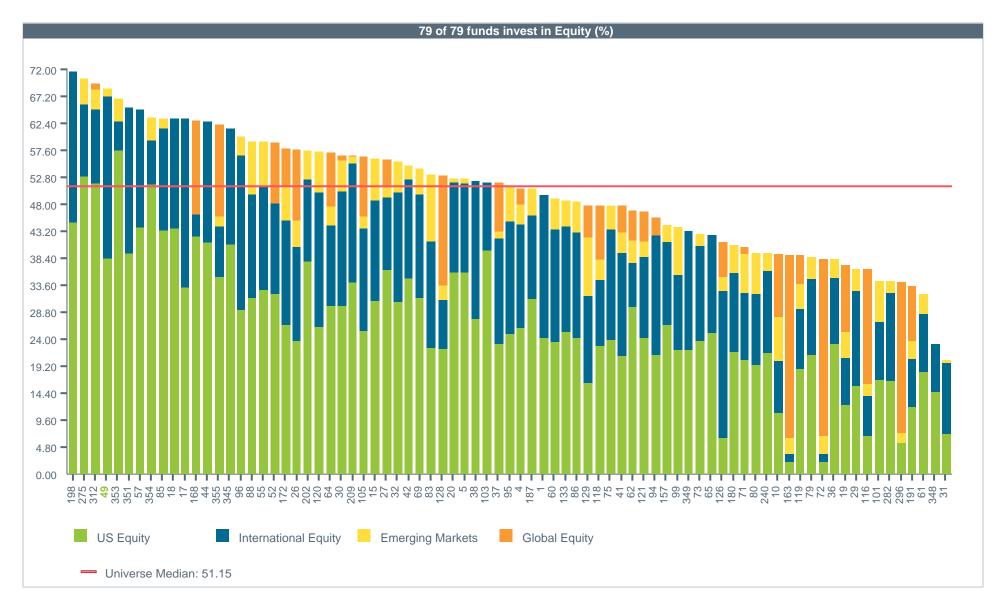
Mendocino County ERA does not have data for Alternatives Style
Allocation



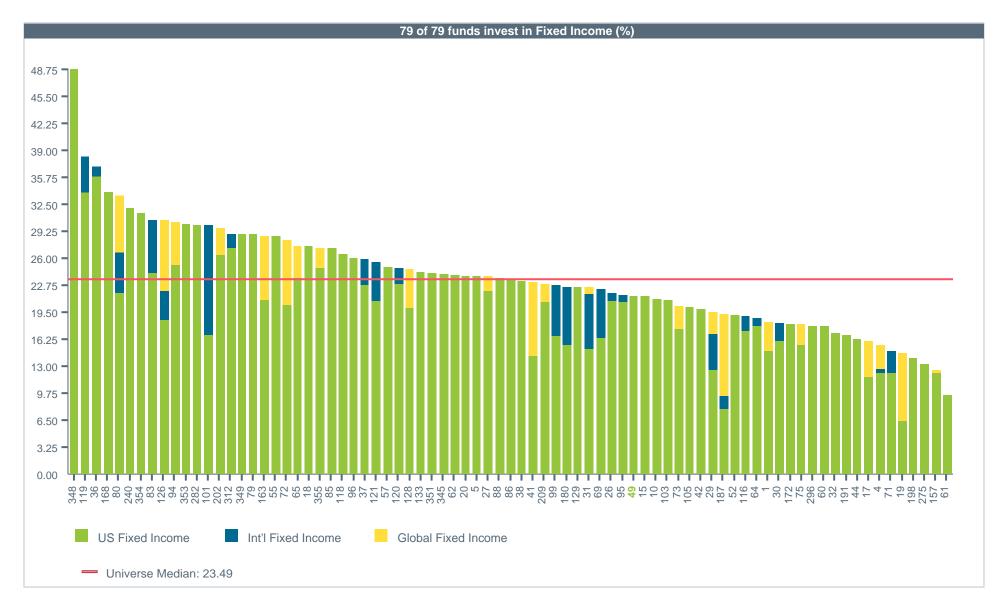
Variance (%)

Mendocino County ERA does not have data for Alternatives Style Allocation

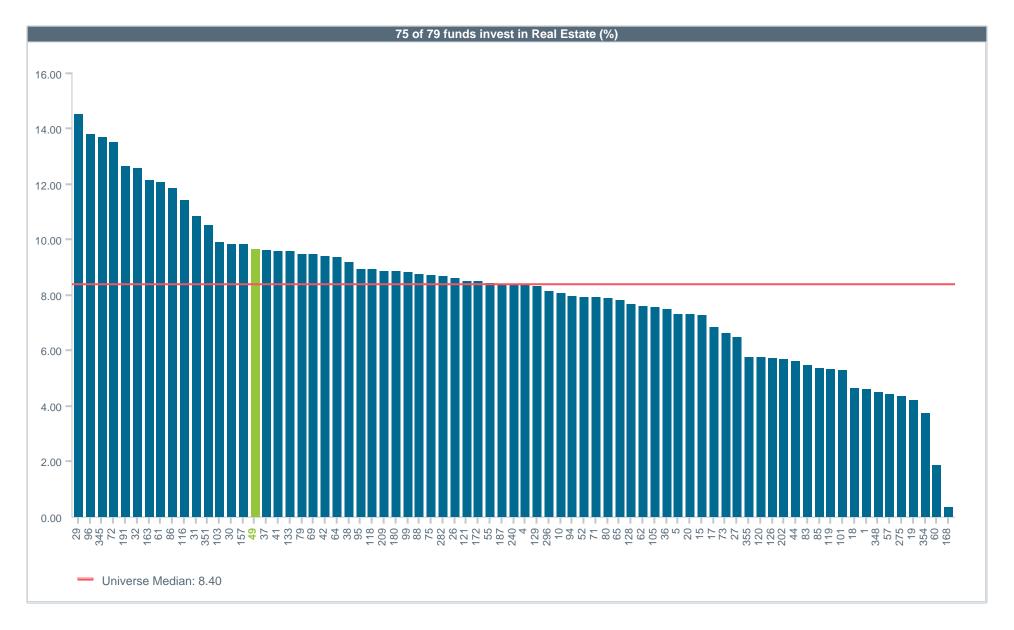




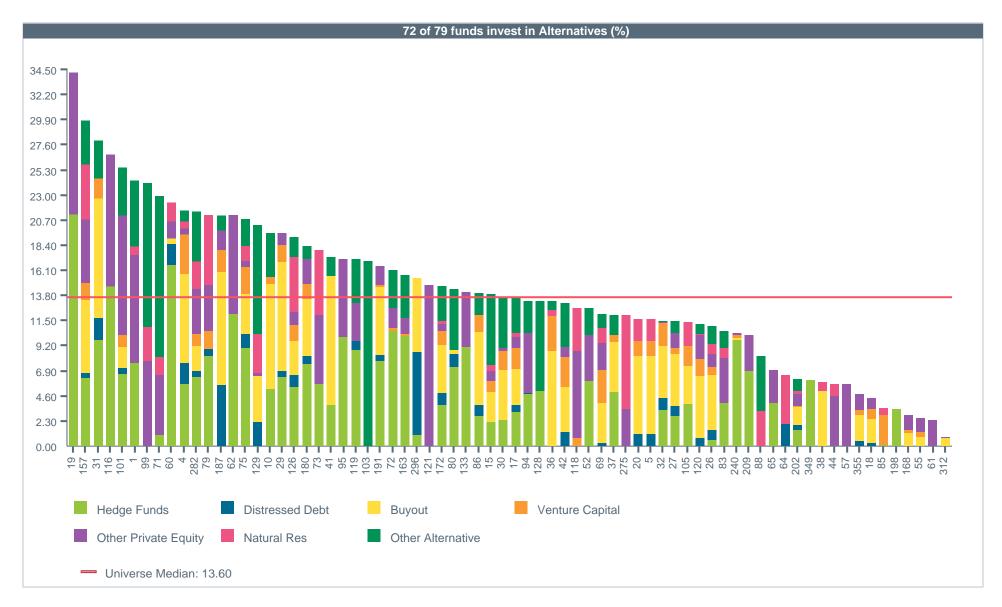




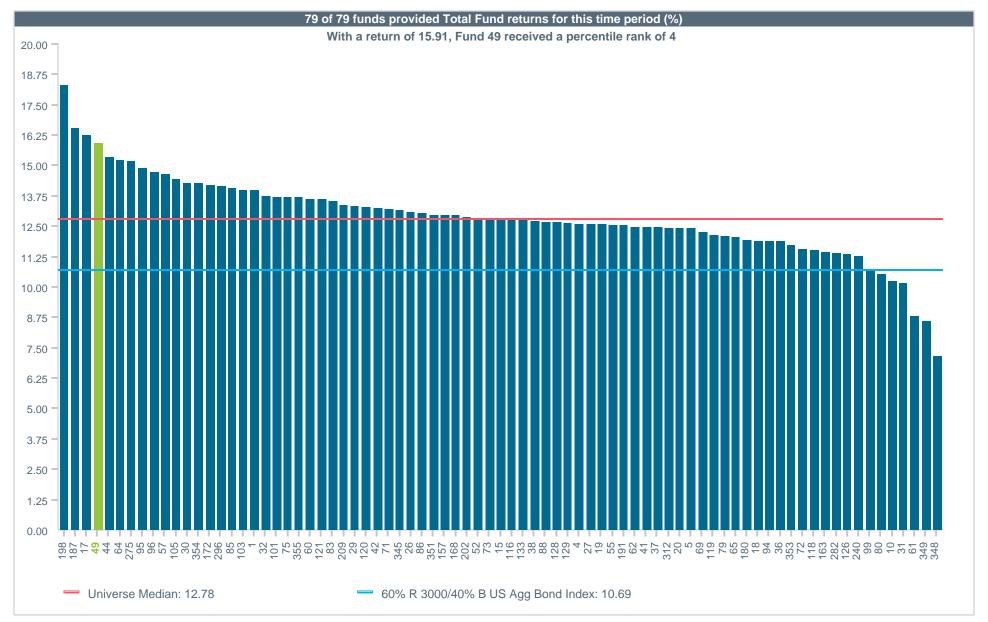






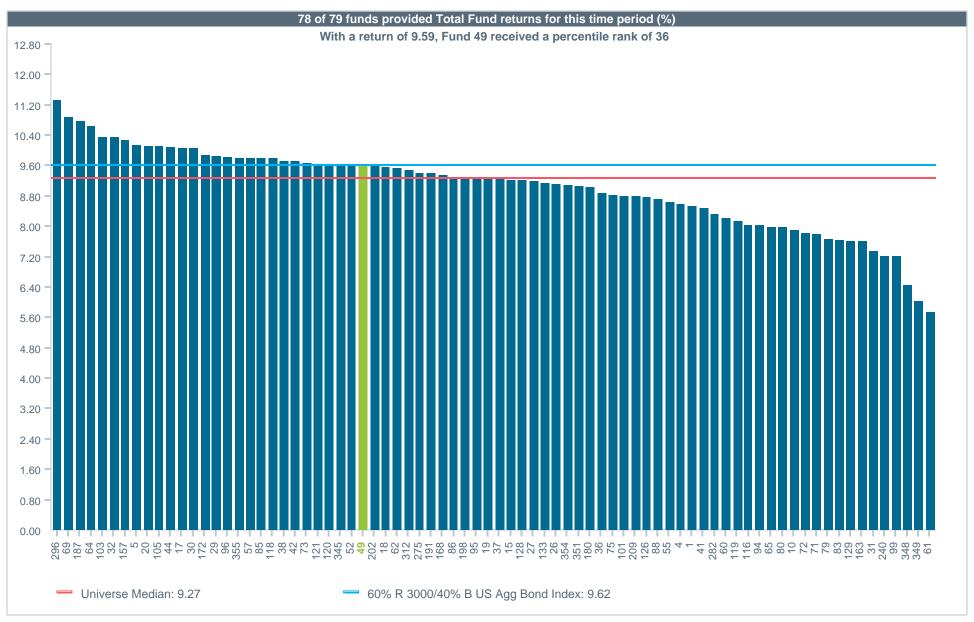






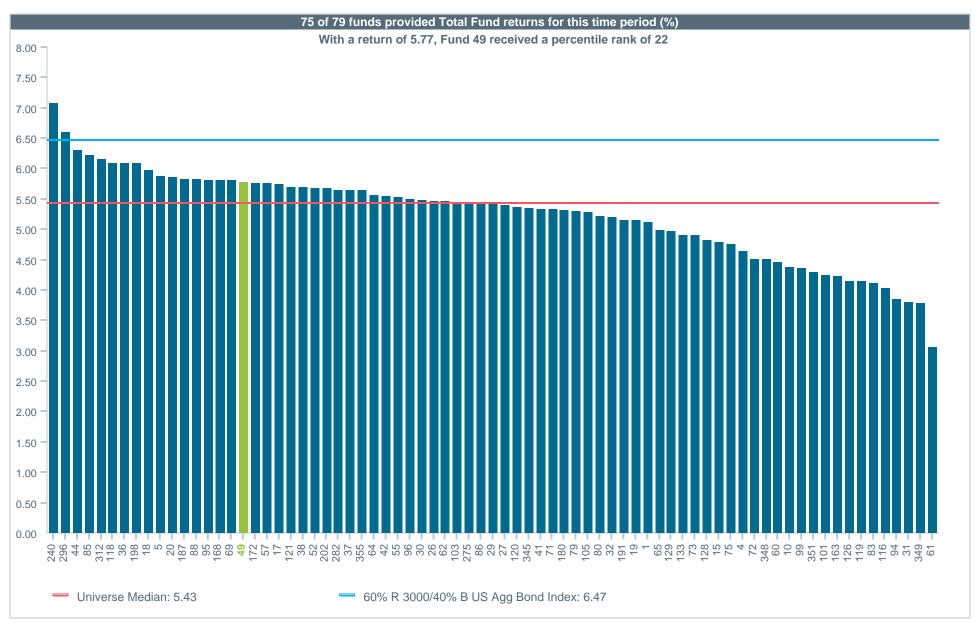


## Fund Number: 49 5 Year Annualized Total Fund Returns





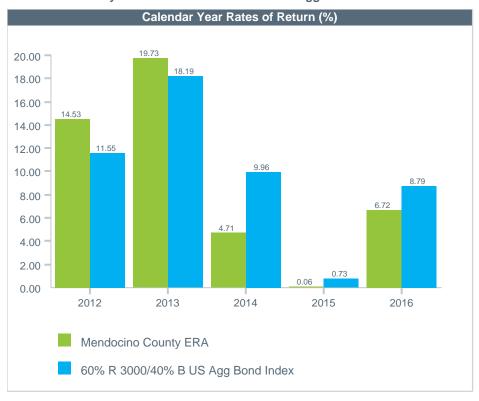
Fund Number: 49
10 Year Annualized Total Fund Returns

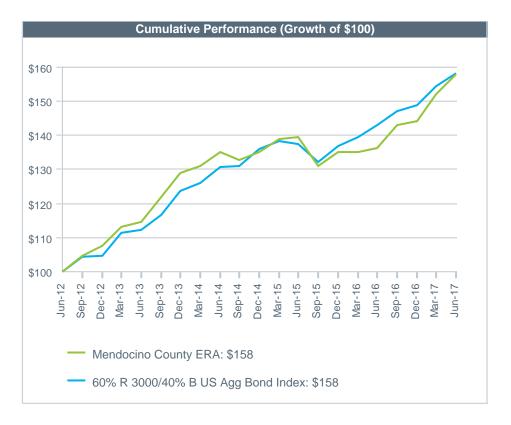




Total Return - Total Fund

Mendocino County ERA vs. 60% R 3000/40% B US Agg Bond Index

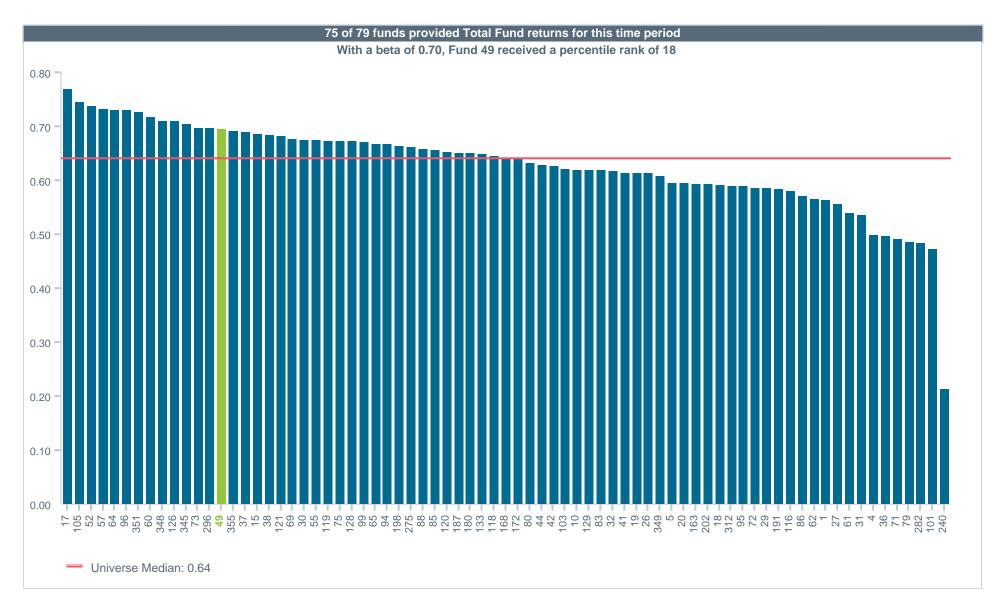




Annualized Returns (%)			
	1 Year	3 Years	5 Years
Mendocino County ERA	15.91	5.34	9.59
60% R 3000/40% B US Agg Bond Index	10.69	6.56	9.62
Variance	5.22	-1.22	-0.03



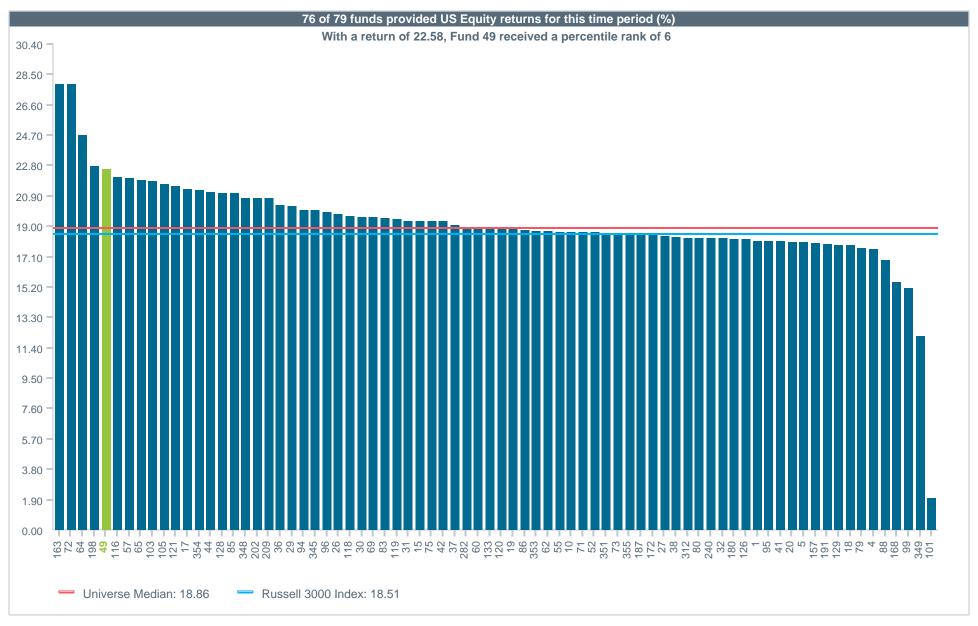
Fund Number: 49 10 Year Total Fund Beta





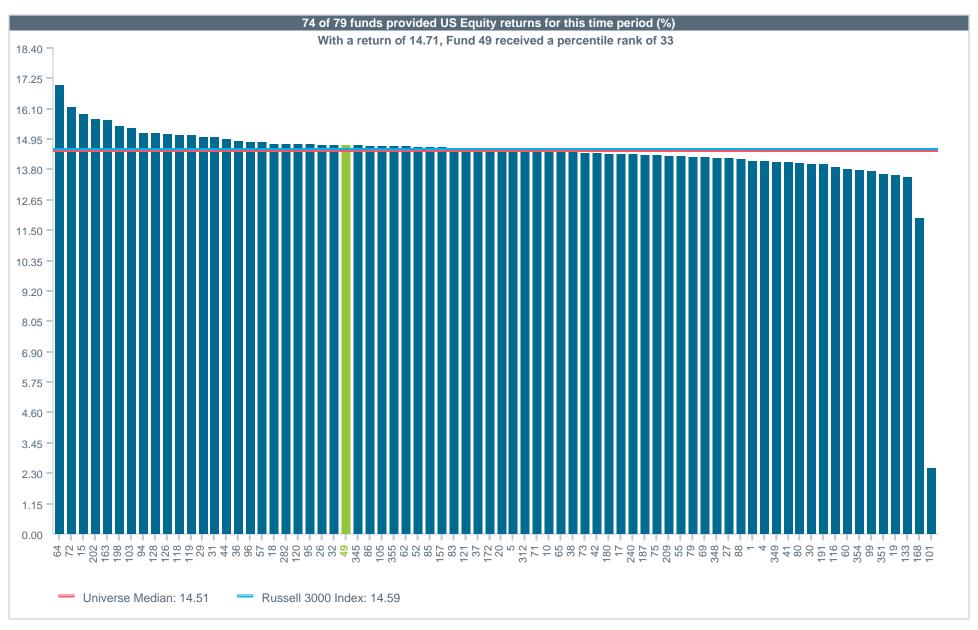


Fund Number: 49 1 Year Annualized US Equity Returns



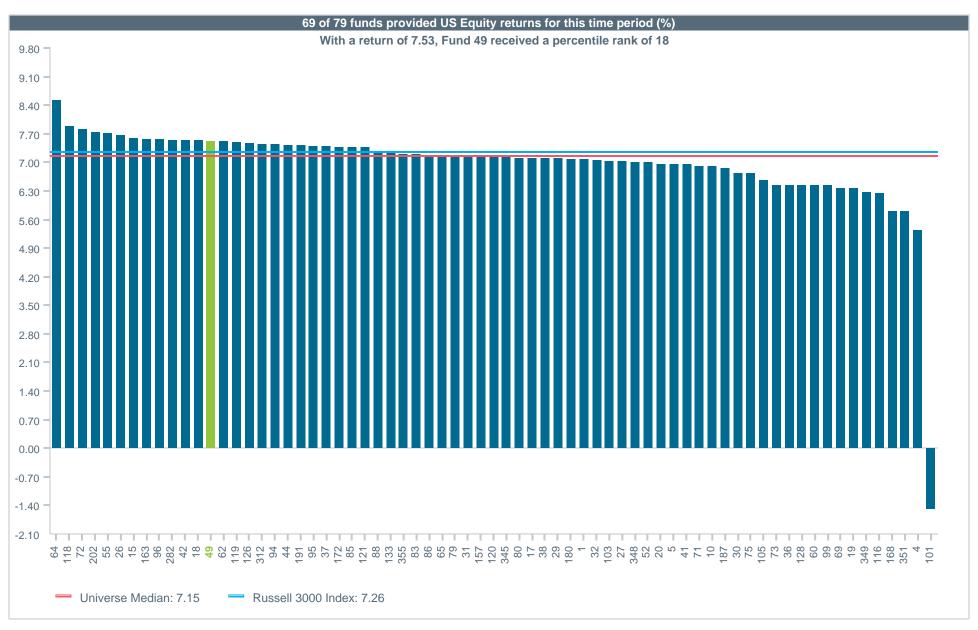


Fund Number: 49 5 Year Annualized US Equity Returns





Fund Number: 49
10 Year Annualized US Equity Returns

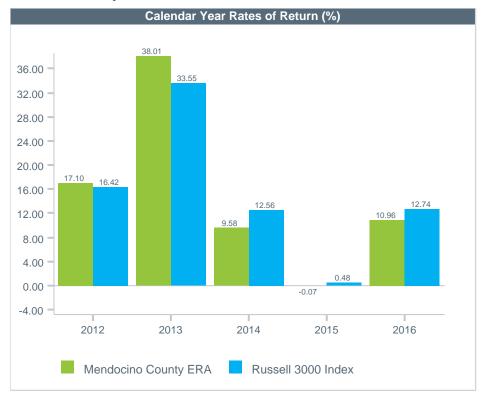


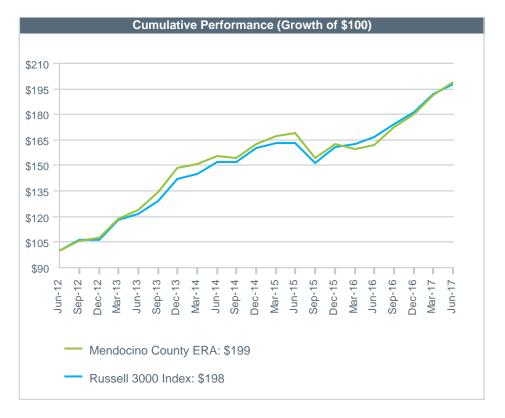


Fund Number: 49
As of June 30, 2017

**Total Return - US Equity** 

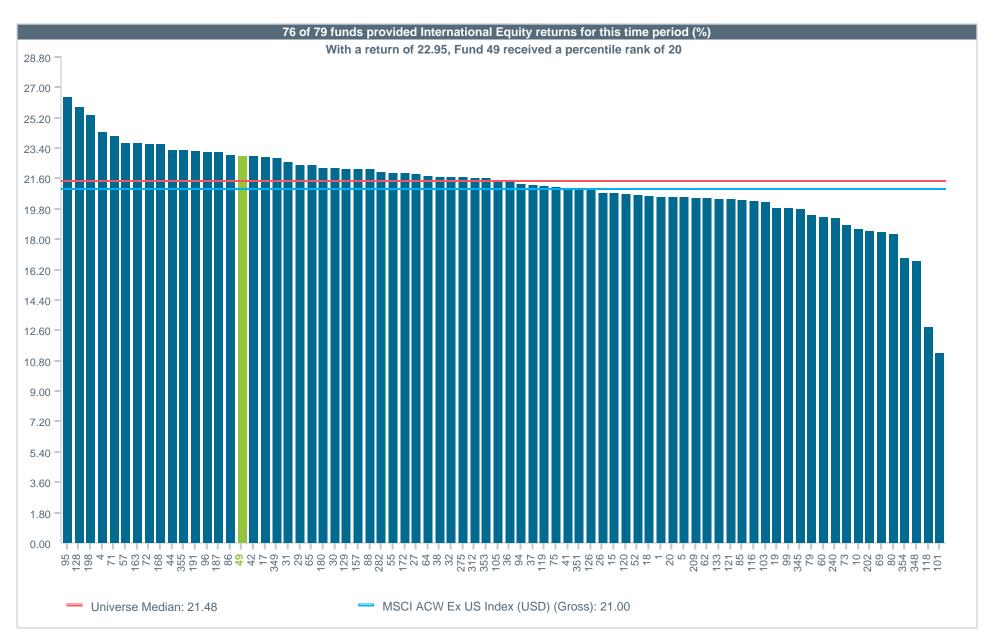
#### Mendocino County ERA vs. Russell 3000 Index



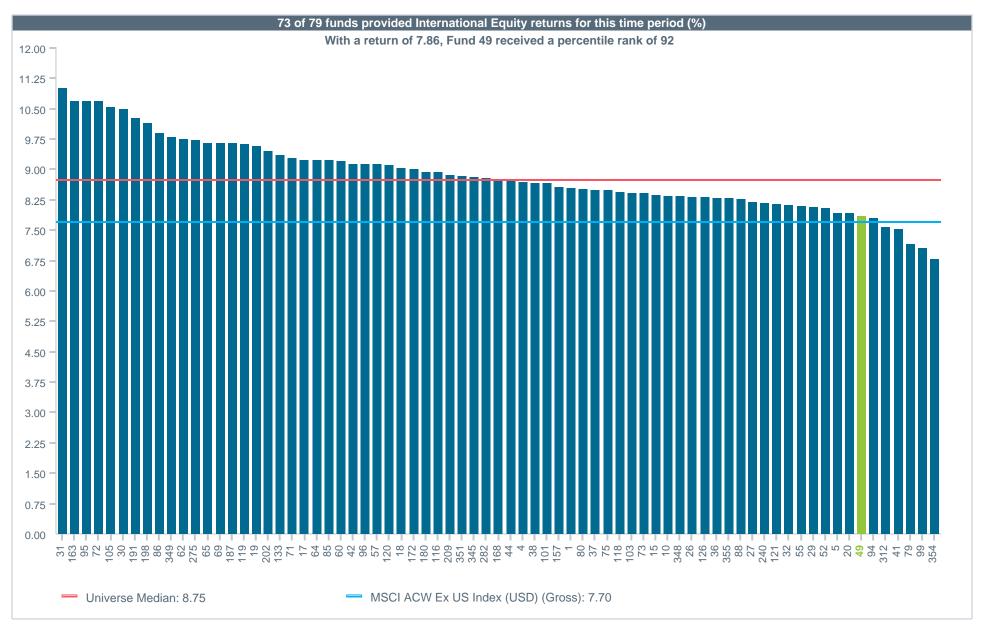


Annualized Returns (%)			
	1 Year	3 Years	5 Years
Mendocino County ERA	22.58	8.46	14.71
Russell 3000 Index	18.51	9.10	14.58
Variance	4.07	-0.64	0.13

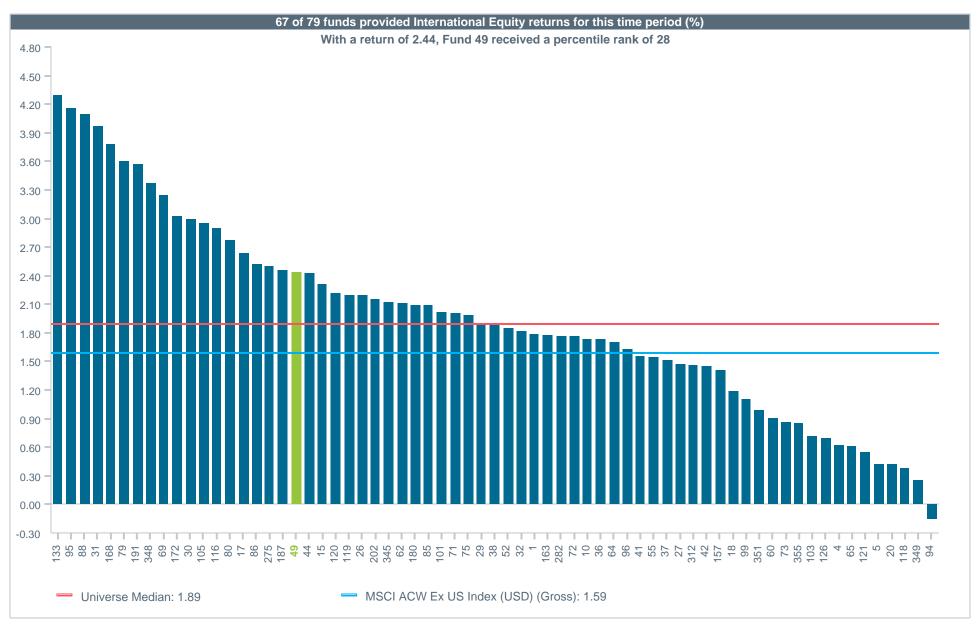










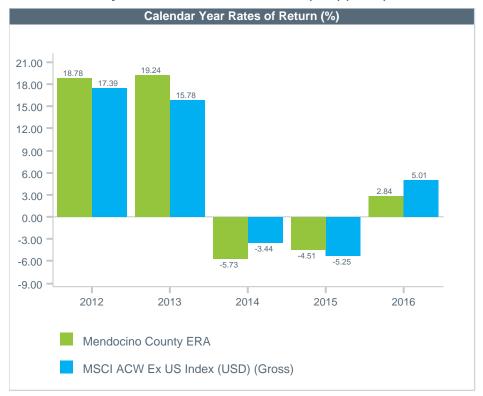


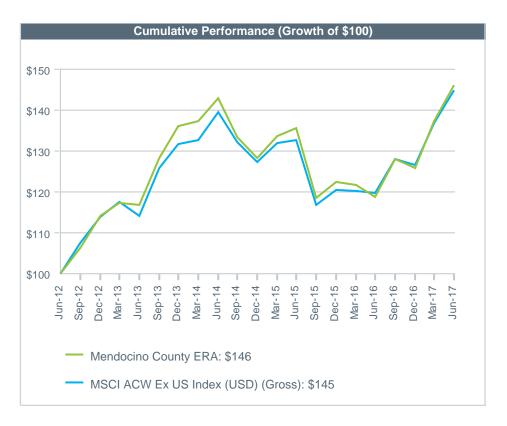


Fund Number: 49
As of June 30, 2017

**Total Return - International Equity** 

Mendocino County ERA vs. MSCI ACW Ex US Index (USD) (Gross)

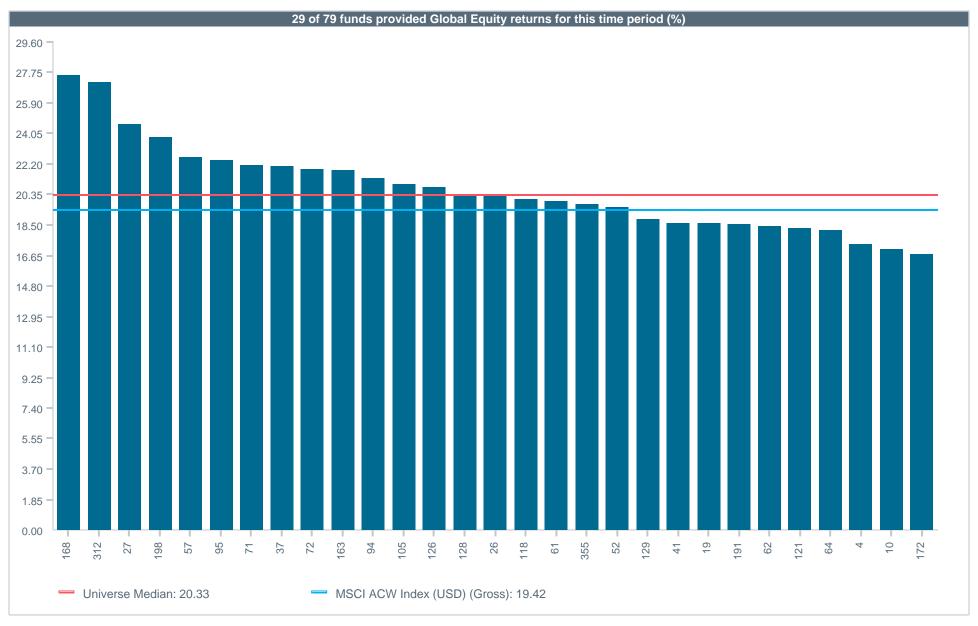




Annualized Returns (%)			
	1 Year	3 Years	5 Years
Mendocino County ERA	22.95	0.73	7.86
MSCI ACW Ex US Index (USD) (Gross)	21.00	1.27	7.70
Variance	1.95	-0.54	0.16

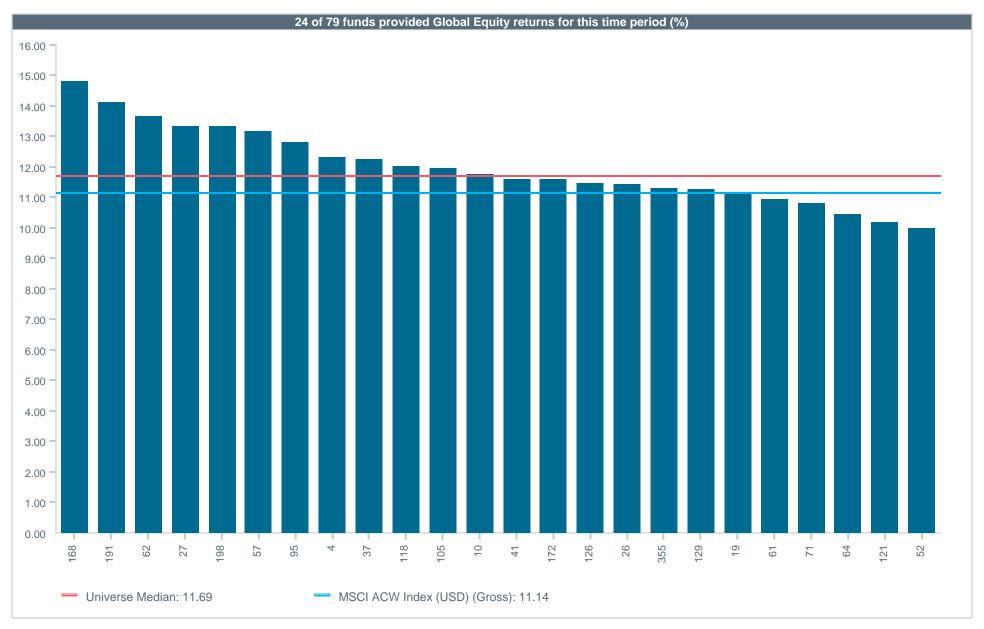


Fund Number: 49
1 Year Annualized Global Equity Returns



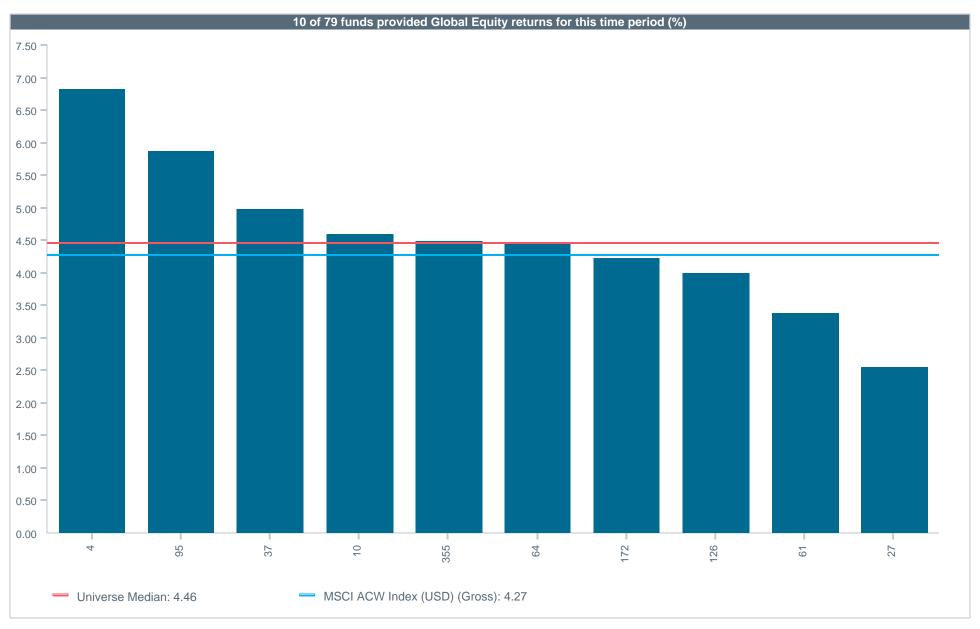


Fund Number: 49 5 Year Annualized Global Equity Returns





Fund Number: 49 10 Year Annualized Global Equity Returns





Fund Number: 49
As of June 30, 2017

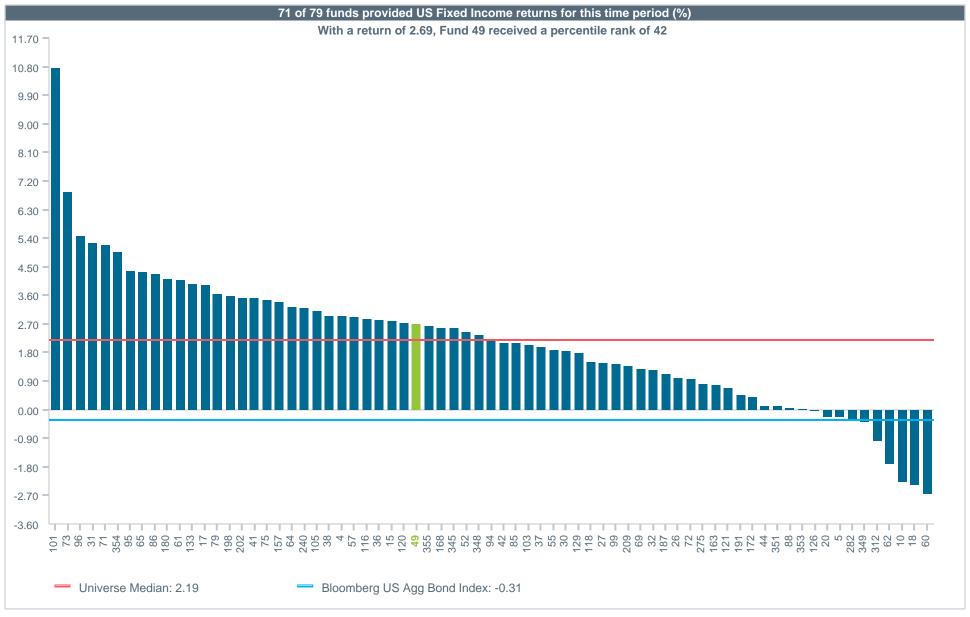
**Total Return - Global Equity** 

Mendocino County ERA vs. MSCI ACW Index (USD) (Gross)

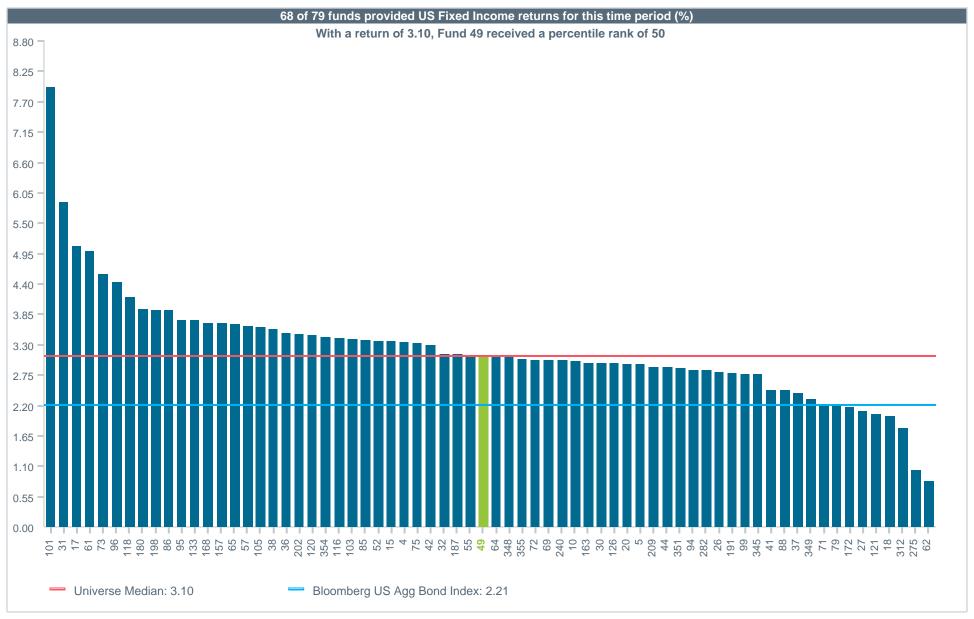
Calendar Year Rates of Return (%)		Cumulative Performance (Growth of \$100)
Mondocino County EDA doos n	ot bo	ve return data for Global Equity
Mendocino County ENA does it	Ot He	ve return data for Global Equity
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Annualized Returns (%)			
	1 Year	3 Years	5 Years
Mendocino County ERA	N/A	N/A	N/A
MSCI ACW Index (USD) (Gross)	N/A	N/A	N/A
Variance	N/A	N/A	N/A



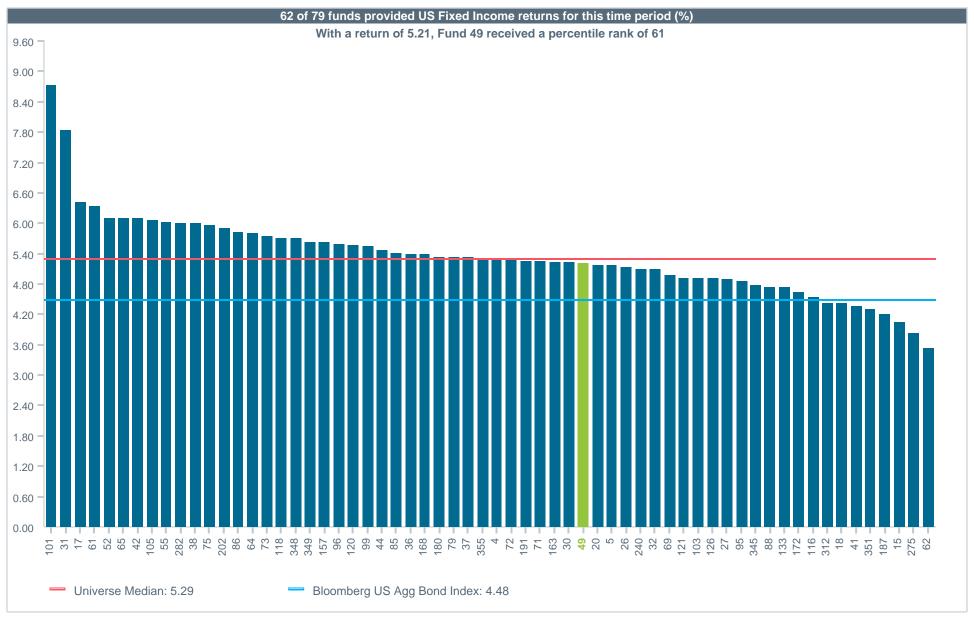








10 Year Annualized US Fixed Income Returns

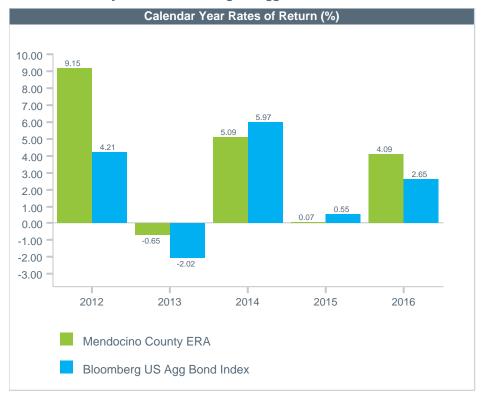


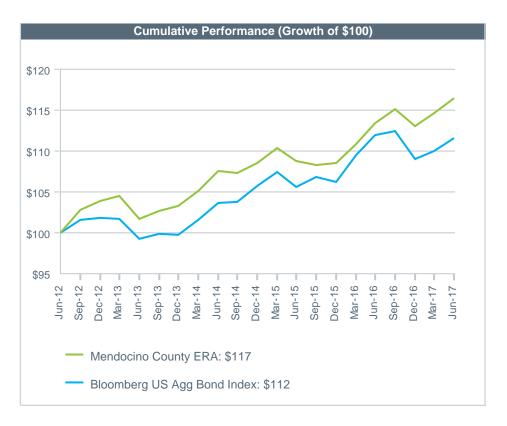


Fund Number: 49
As of June 30, 2017

**Total Return - US Fixed Income** 

### Mendocino County ERA vs. Bloomberg US Agg Bond Index

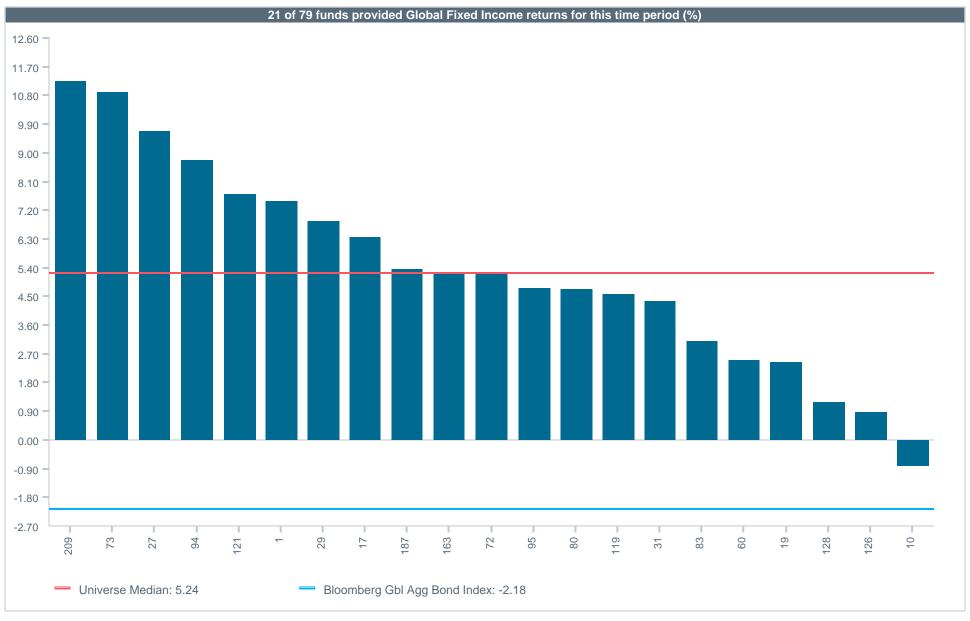




Annualized Returns (%)			
	1 Year	3 Years	5 Years
Mendocino County ERA	2.69	2.71	3.10
Bloomberg US Agg Bond Index	-0.31	2.48	2.21
Variance	3.00	0.23	0.89

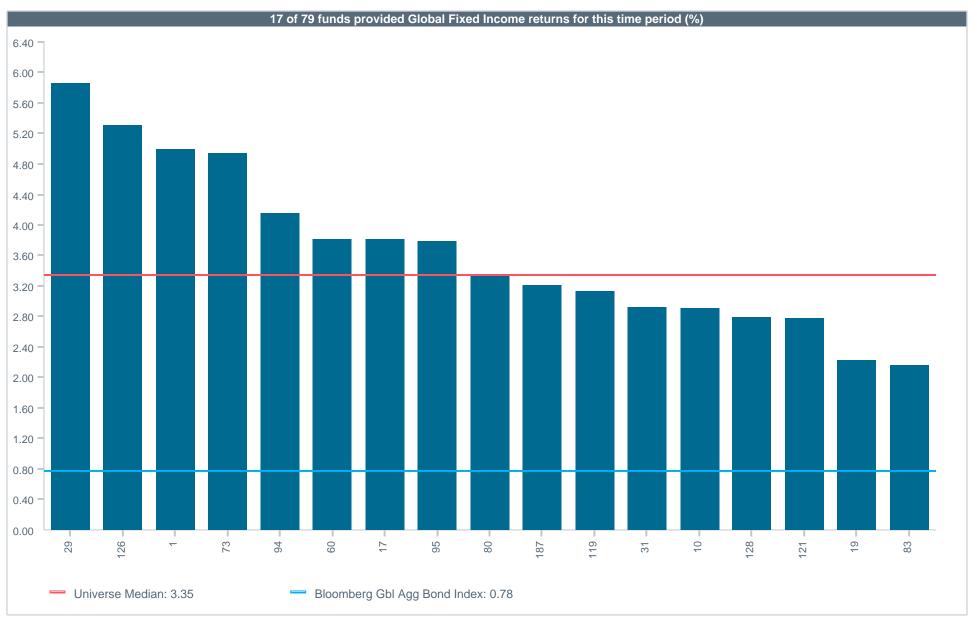


Fund Number: 49
1 Year Annualized Global Fixed Income Returns



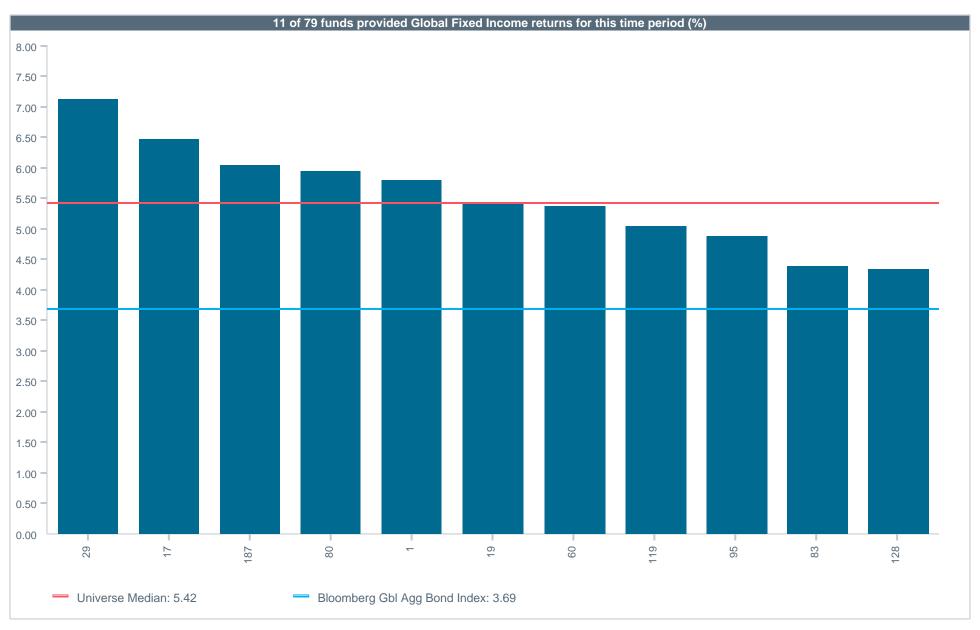


Fund Number: 49 5 Year Annualized Global Fixed Income Returns





Fund Number: 49 10 Year Annualized Global Fixed Income Returns





Fund Number: 49
As of June 30, 2017

**Total Return - Global Fixed Income** 

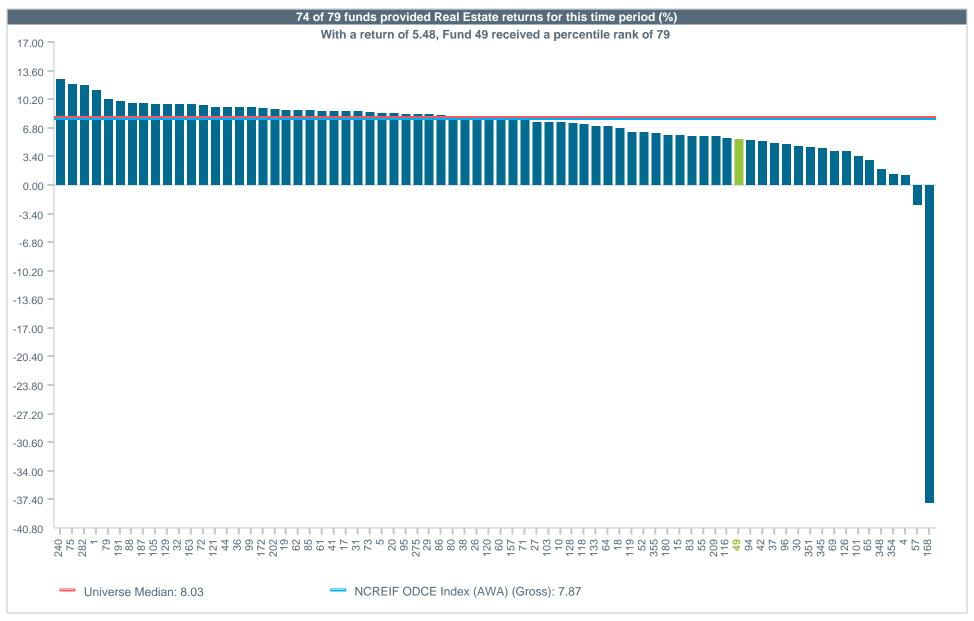
Mendocino County ERA vs. Bloomberg Gbl Agg Bond Index

Calendar Year Rates of Return (%)		Cumulative Performance (Growth of \$100)
		·
Mendocino County ERA does not h	ave	return data for Global Fixed Income
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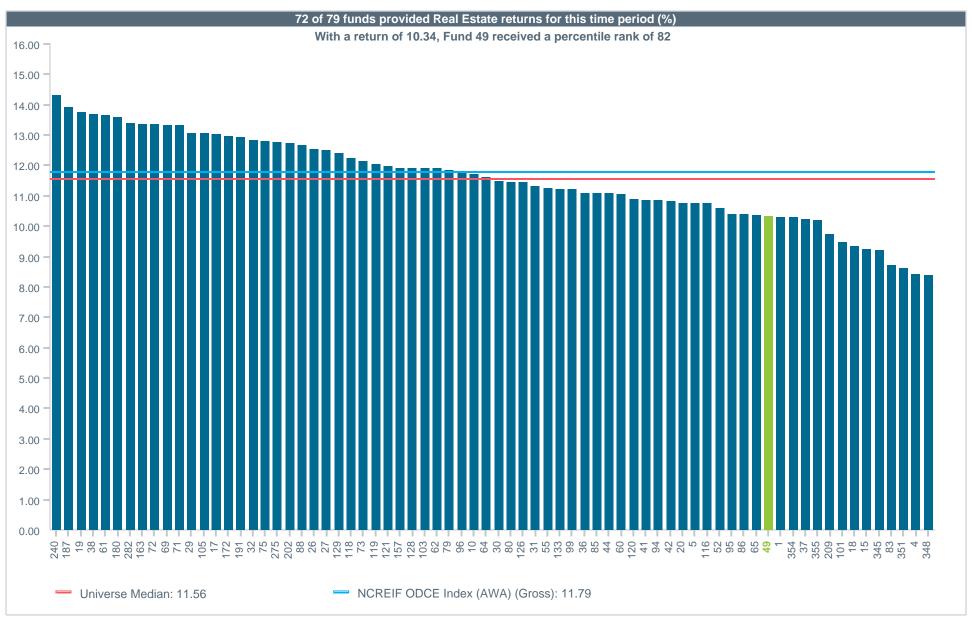
Annualized Returns (%)			
	1 Year	3 Years	5 Years
Mendocino County ERA	N/A	N/A	N/A
Bloomberg Gbl Agg Bond Index	N/A	N/A	N/A
Variance	N/A	N/A	N/A



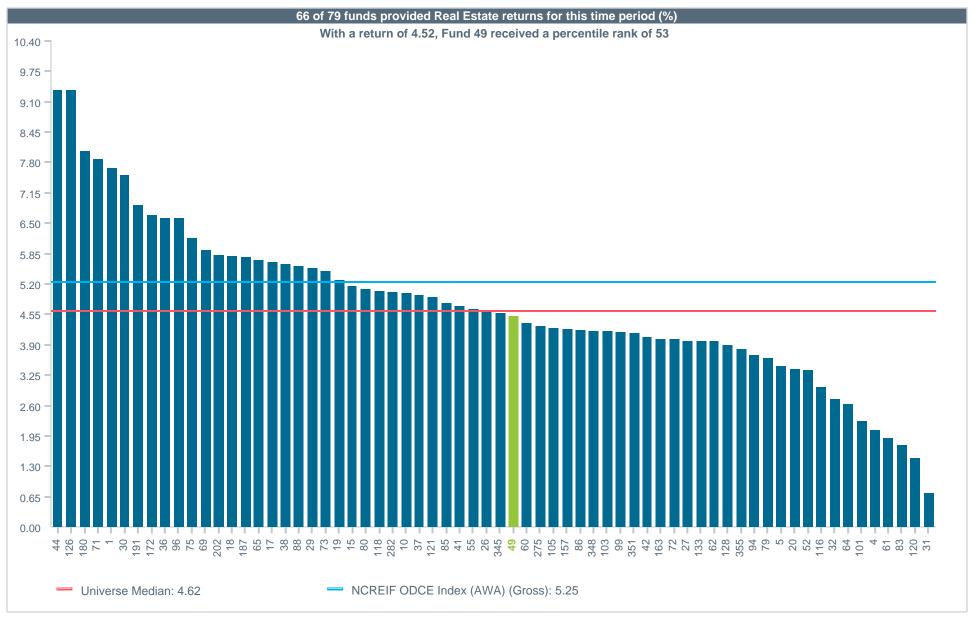
# Fund Number: 49 1 Year Annualized Real Estate Returns









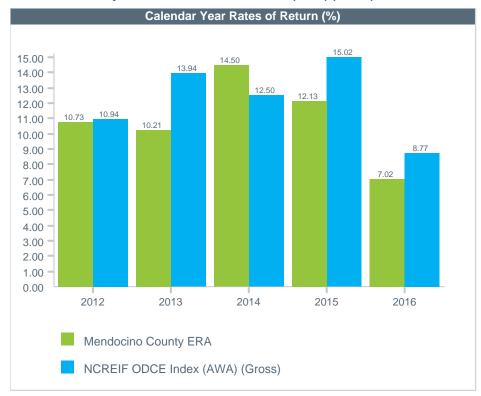


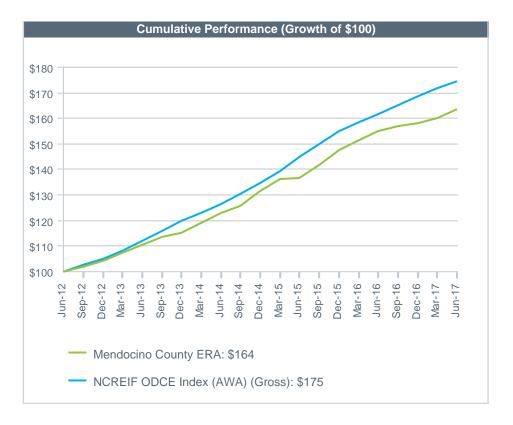


Fund Number: 49
As of June 30, 2017

Total Return - Real Estate

### Mendocino County ERA vs. NCREIF ODCE Index (AWA) (Gross)





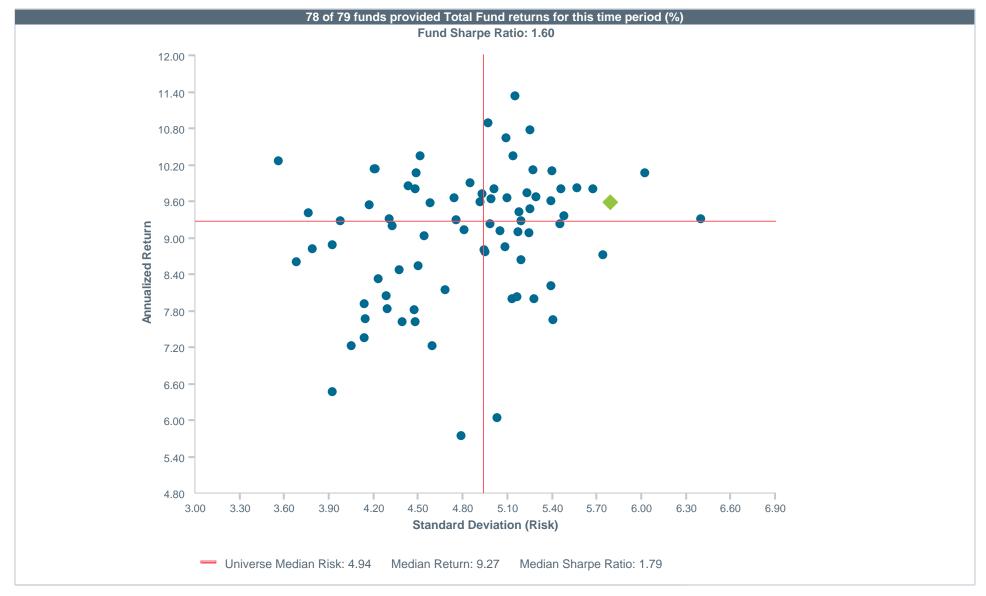
Annualized Returns (%)			
	1 Year	3 Years	5 Years
Mendocino County ERA	5.48	9.94	10.34
NCREIF ODCE Index (AWA) (Gross)	7.87	11.34	11.79
Variance	-2.39	-1.40	-1.45



Risk/Return Analysis

Fund Number: 49

5 Year Annualized Total Fund Returns vs. Standard Deviation

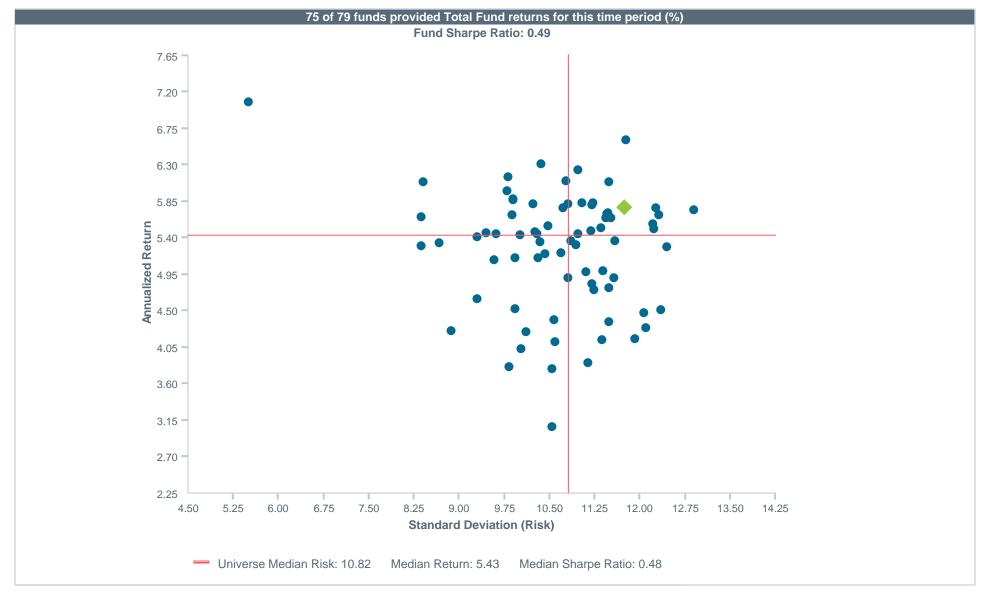






Risk/Return Analysis

10 Year Annualized Total Fund Returns vs. Standard Deviation

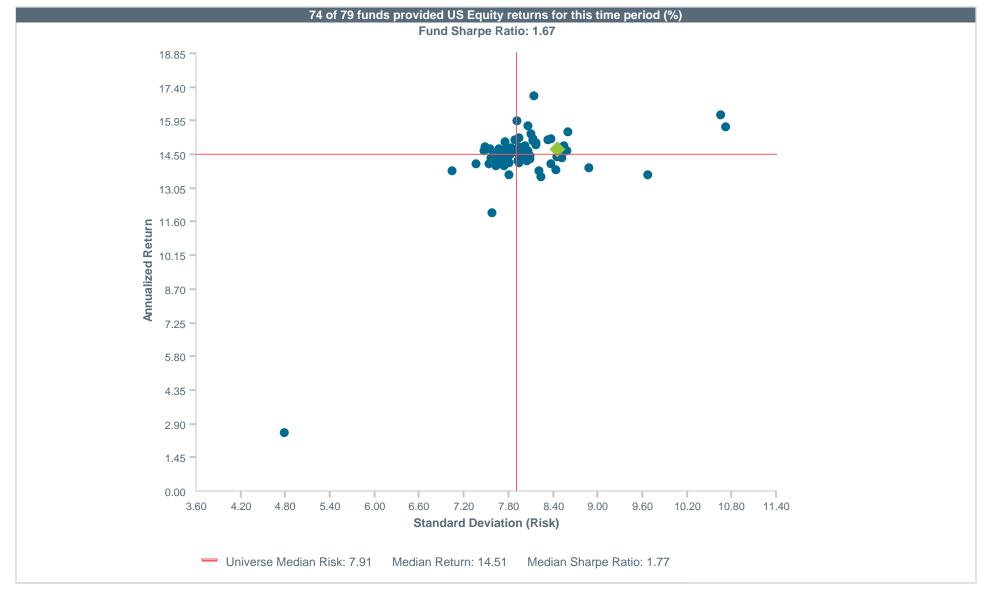






Risk/Return Analysis

5 Year Annualized US Equity Returns vs. Standard Deviation

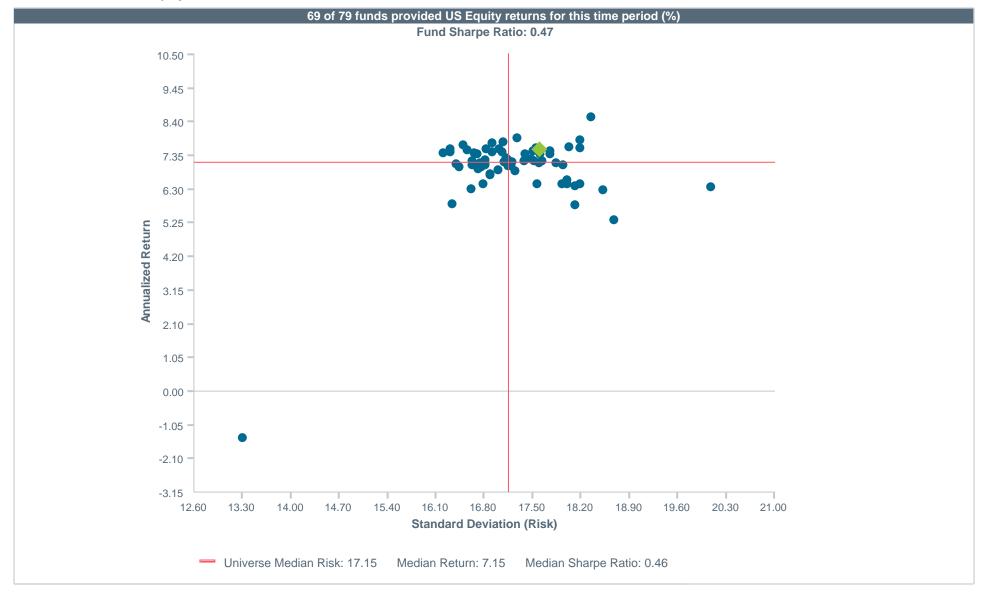






Risk/Return Analysis

10 Year Annualized US Equity Returns vs. Standard Deviation

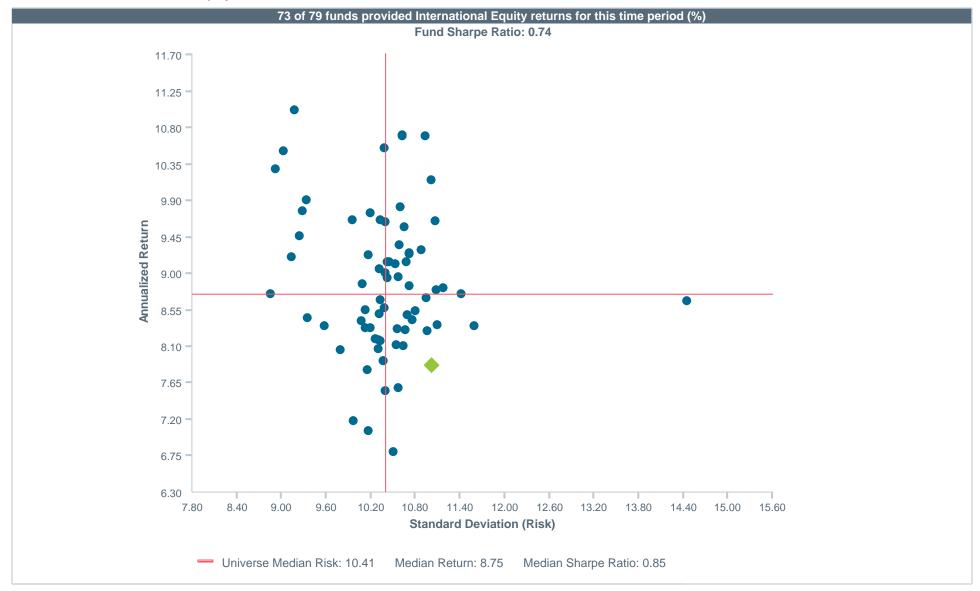


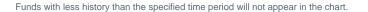




Risk/Return Analysis

5 Year Annualized International Equity Returns vs. Standard Deviation

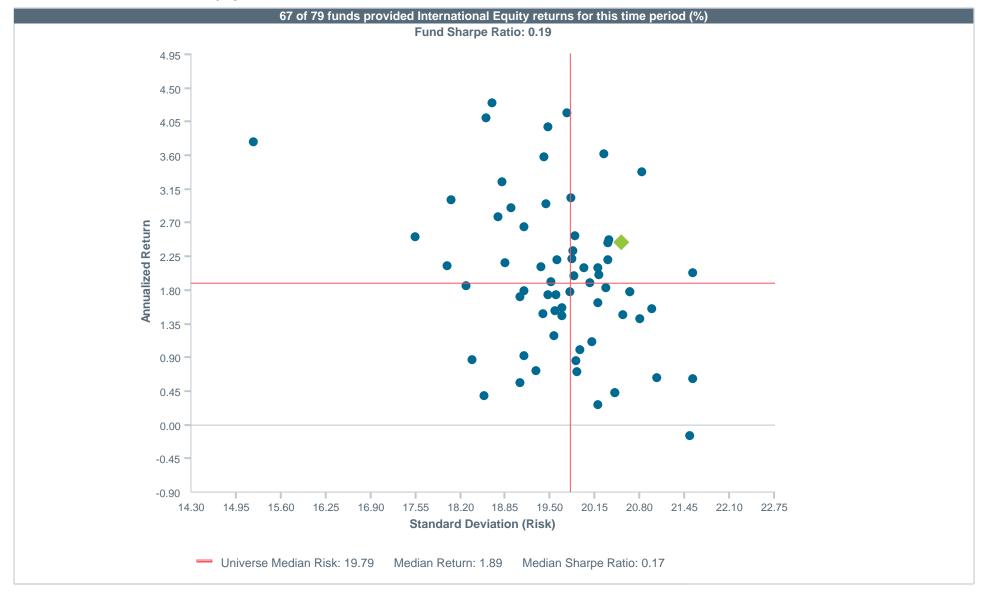






Risk/Return Analysis

10 Year Annualized International Equity Returns vs. Standard Deviation

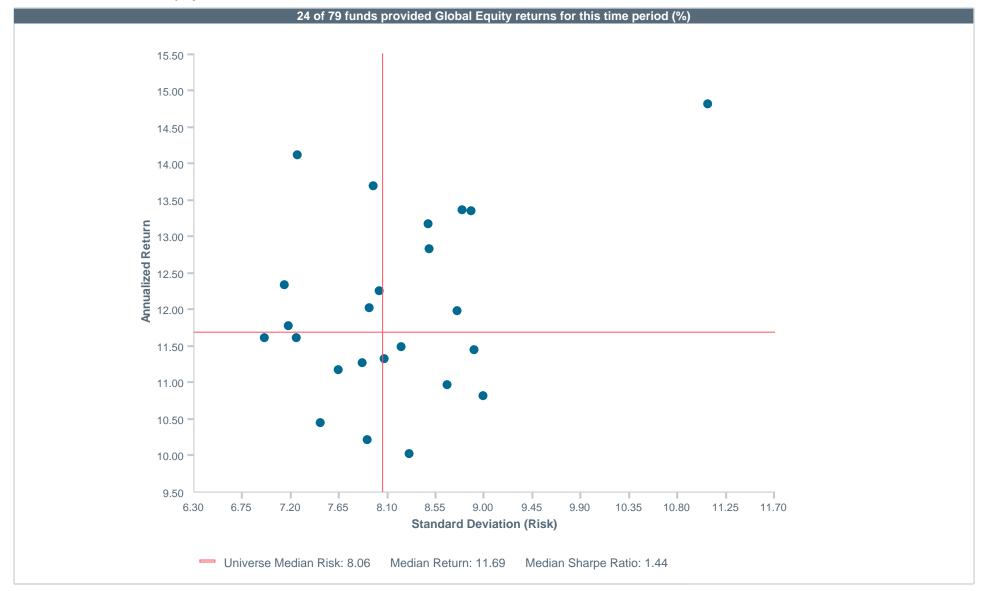






Risk/Return Analysis

5 Year Annualized Global Equity Returns vs. Standard Deviation

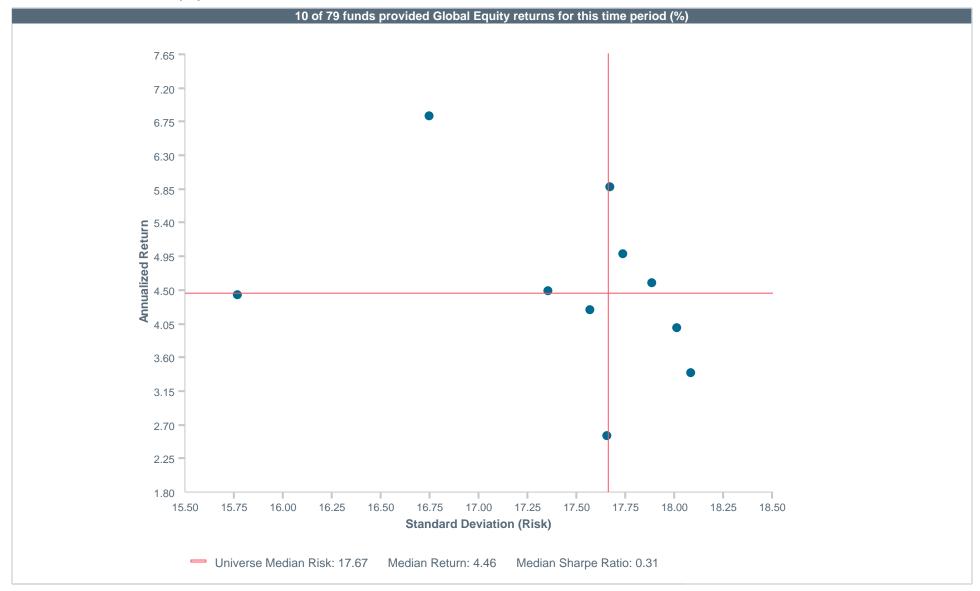


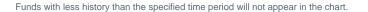




Risk/Return Analysis

10 Year Annualized Global Equity Returns vs. Standard Deviation

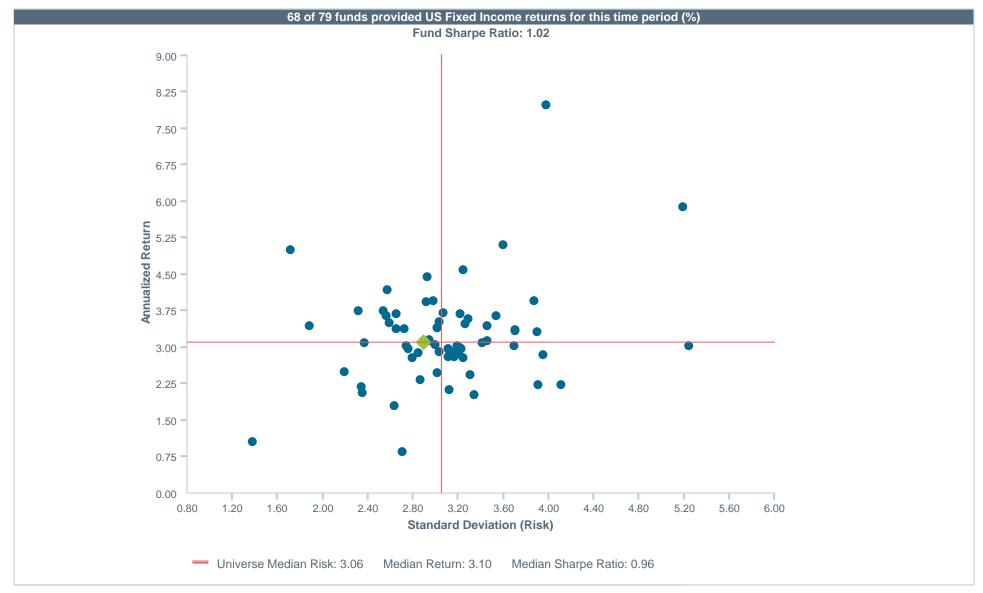






Risk/Return Analysis

5 Year Annualized US Fixed Income Returns vs. Standard Deviation

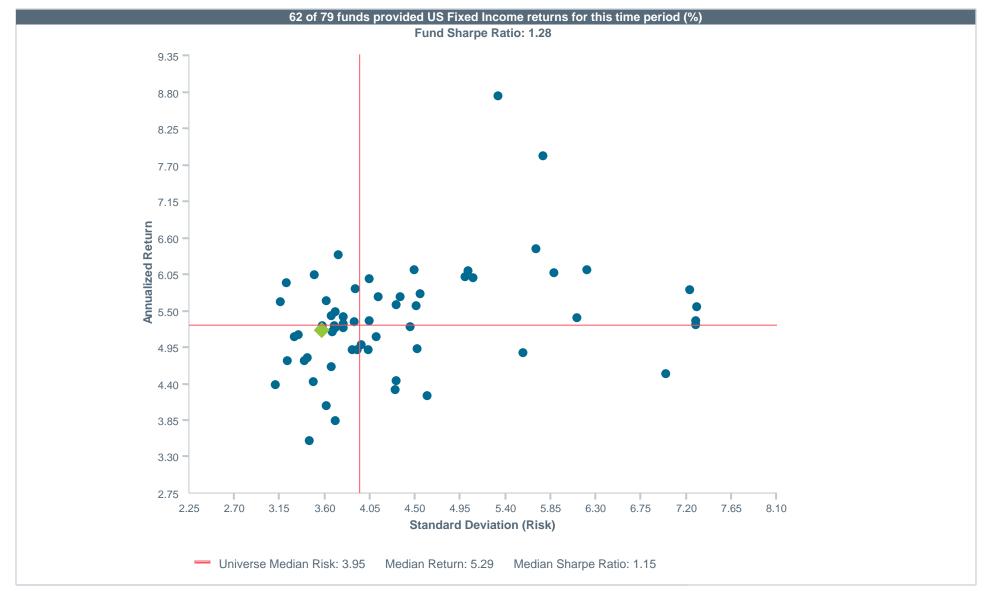






Risk/Return Analysis

10 Year Annualized US Fixed Income Returns vs. Standard Deviation

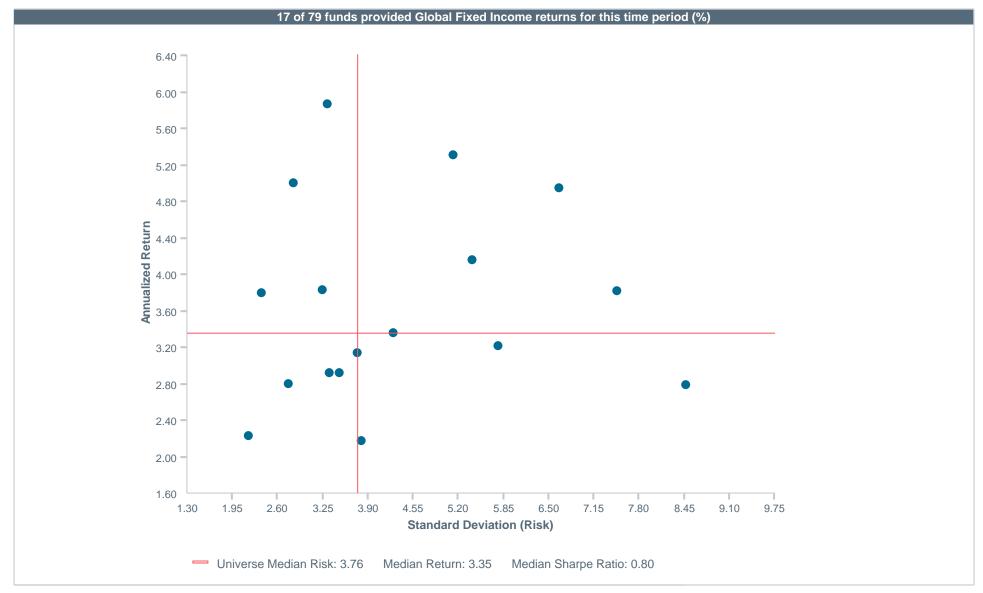






Risk/Return Analysis

5 Year Annualized Global Fixed Income Returns vs. Standard Deviation

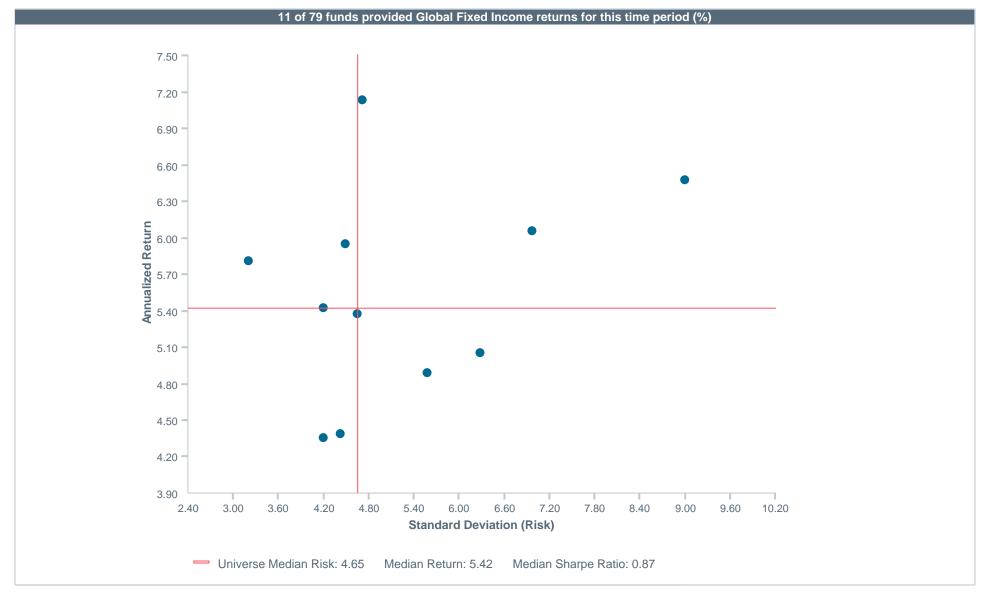






Risk/Return Analysis

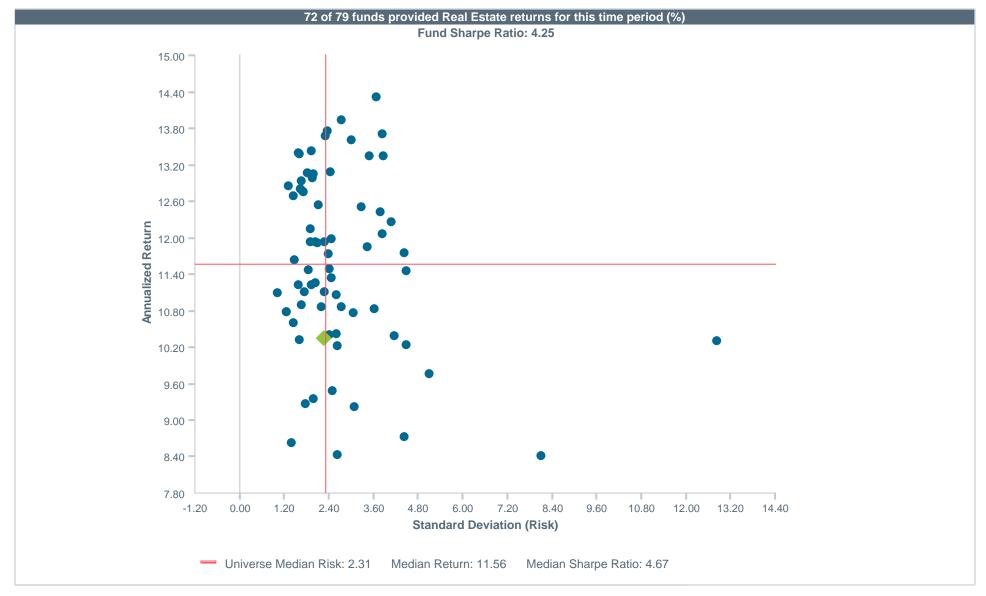
10 Year Annualized Global Fixed Income Returns vs. Standard Deviation







5 Year Annualized Real Estate Returns vs. Standard Deviation

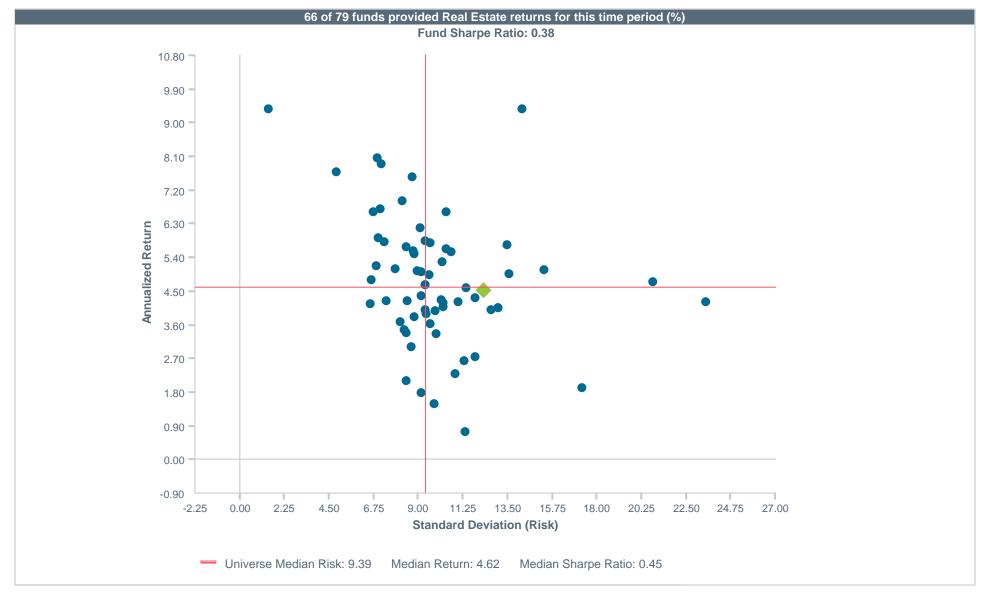






Risk/Return Analysis

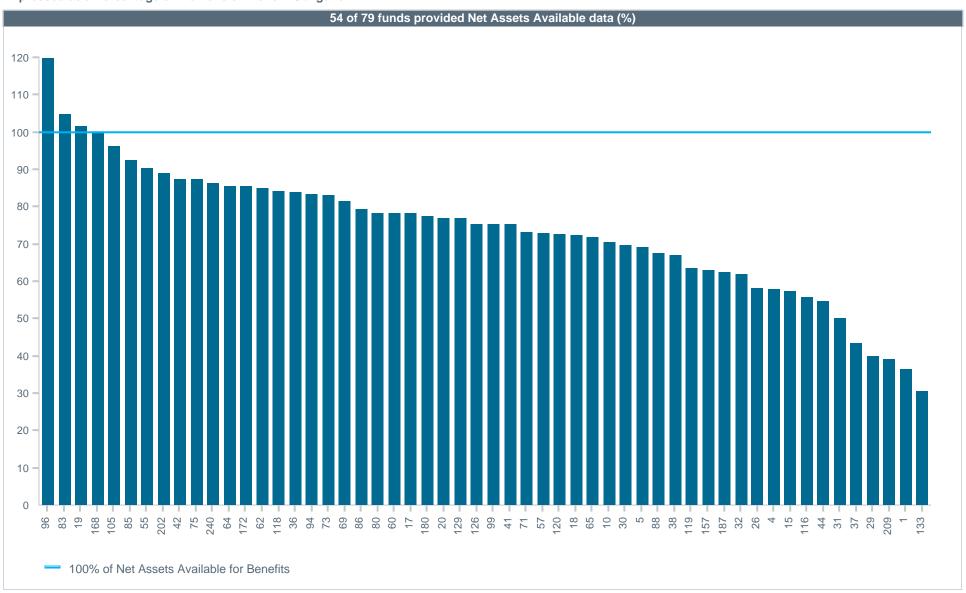
10 Year Annualized Real Estate Returns vs. Standard Deviation





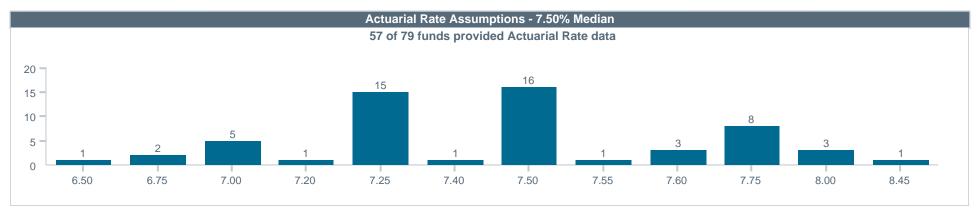


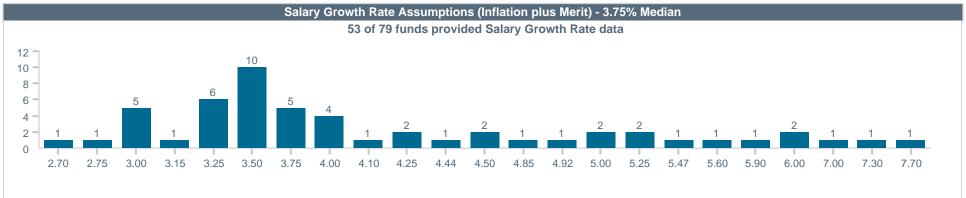
Fund Number: 49
Net Assets Available For Benefits
Expressed as a Percentage of the Pension Benefit Obligation

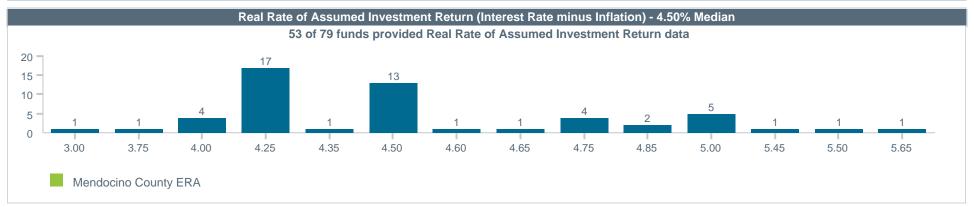








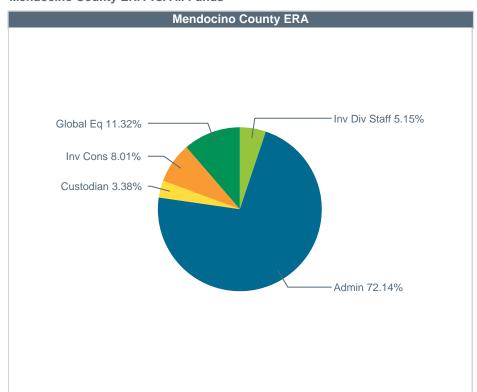


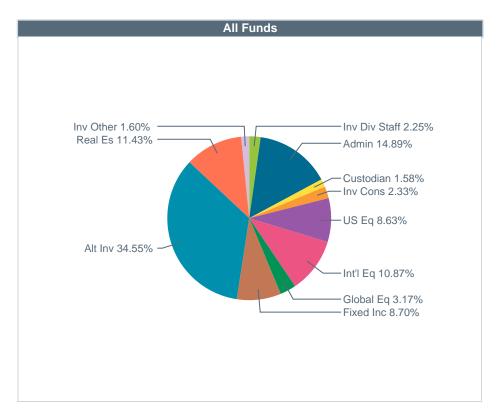


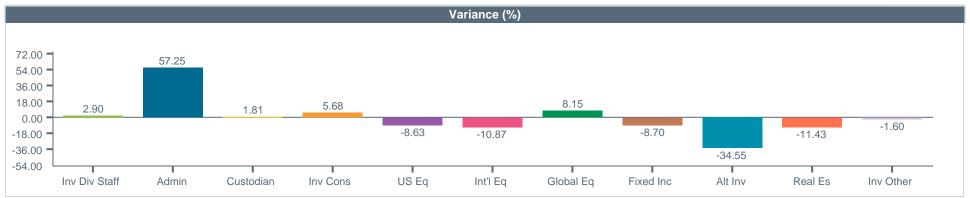
Funds that did not provide data will not appear in the chart.



**Total Administrative and Investment Fees Mendocino County ERA vs. All Funds** 







Allocations shown may not sum up to 100% exactly due to rounding.



As of June 30, 2017 Fund Number: 49

**Total Fund Fee Summary in Basis Points** Mendocino County ERA vs. Average by Asset Range 56 of 79 funds provided fee data for this time period

Administrative Expenses	Mendocino County ERA	Under \$500 Million	\$500mm - \$1 Billion	\$1 - \$5 Billion	\$5 - \$10 Billion	\$10 - \$20 Billion	Over \$20 Billion
Internal Inv. Div. Staff	1.96	1.96	0.00	0.91	0.63	0.85	2.04
Actuary	3.25	3.25	1.80	0.54	0.24	0.13	0.11
Legal	1.45	1.45	1.18	0.68	0.20	0.31	0.15
Consultant	0.00	0.00	0.25	0.26	0.07	0.12	0.13
Audit	0.92	0.92	0.64	0.21	0.11	0.06	0.07
Other Professional	0.00	0.00	1.73	0.27	0.60	0.43	0.77
General Administrative	21.89	21.89	13.74	7.42	6.46	4.47	3.30
Total Administrative Expenses	29.48	29.48	19.34	10.28	8.32	6.37	6.57
Investment Expenses	Mendocino County ERA	Under \$500 Million	\$500mm - \$1 Billion	\$1 - \$5 Billion	\$5 - \$10 Billion	\$10 - \$20 Billion	Over \$20 Billion
Custodial	1.29	1.29	3.03	1.16	0.71	0.55	0.30
Investment Consulting	3.05	3.05	2.40	2.22	0.69	0.70	0.45
US Equity	0.00	0.00	7.38	6.66	6.35	3.26	2.19
International Equity	0.00	0.00	6.71	7.62	5.29	5.68	4.20
Global Equity	4.32	4.32	1.00	2.43	2.29	1.11	0.95
Fixed Income	0.00	0.00	5.32	6.07	3.24	4.42	3.80
Real Estate	0.00	0.00	5.98	5.73	7.86	4.49	6.77
Other Investment Management	0.00	0.00	0.00	0.38	0.07	0.88	1.78
Total Investment Expenses (ex. Alt Inv)	8.66	8.66	31.81	32.28	26.49	21.10	20.42
Alternative Investments	0.00	0.00	3.98	18.11	23.98	14.10	21.73
Total Investment Expenses	8.66	8.66	35.79	50.39	50.46	35.20	42.15
Total Expenses	38.14	38.14	55.13	60.67	58.78	41.57	48.73



## **GIPS Compliance Survey Summary**

Q1. Are you currently claiming compliance or considering compliance with the CFA Institute's Guidance Statement on the Application of the Global Investment Performance Standards (GIPS) to Asset Owners, effective January 1, 2015?

Of the 79 participants in the 2017Q2 Public Fund Report, 51 participants provided a reply to the GIPS Compliance Survey. Of those participants, 6 answered "Yes, Currently Comply", 4 answered "Yes, Considering", and 41 answered "Not Considering".

Q2. According to the GIPS standards, asset owner net of fees performance must reflect internal as well as external investment costs, and such net of all fee performance is required to be calculated and presented to fund oversight committees/Boards. Please identify which, if any, of the following costs you are currently including or will consider including in net performance that is in compliance with the GIPS standards.

	<b>Currently Include</b>	Considering	Not Considering	Unsure at this Time
<ul> <li>Internal investment department compensation/benefits</li> </ul>	7	1	3	2
<ul> <li>Allocation of non-investment department expenses (human resources, communications, technology, performance measurement, and compliance to support internal management team)</li> </ul>	7	1	3	2
<ul> <li>Investment research services (100% or pro-rata determination)</li> </ul>	6	0	3	4
<ul> <li>Investment consulting fees (general investment consulting and project fees; 100% or pro-rata determination)</li> </ul>	8	0	3	2
Pro-rata data valuation fees	4	1	3	5
<ul> <li>Pro-rata overhead indirectly related to asset management (building and utilities fees to support internal management team)</li> </ul>	5	0	4	3



Addendum and Glossary

As of June 30, 2017

#### **Miscellaneous Comments**

- Performance shown is gross of fees, with the exception of the following:
  - Funds 31, 49, 350, 351, and 355: Performance shown is net of fees.
  - Funds 5 and 20: Performance shown is net of fees, except for Total Fund performance.
  - Fund 85: Performance shown for Real Estate is net of fees.
- Performance shown is calculated using quarterly performance provided by participating public funds.
- Performance shown may differ from a fund's actual performance due to rounding.
- Net Assets Available for Benefit includes funding percentage valuation as of dates between June 2016 and June 2017.
- Allocations shown reflect dedicated managers/mandates rather than actual exposure, with the exception of the following:
  - Fund 61: Performance shown for Global Equity includes US and Non-US exposure.
  - Funds 1, 29, and 119: Performance shown for Global Fixed Income includes US and Non-US exposure.
  - Funds 4, 42, and 64: Performance shown for US Fixed Income includes US and Non-US exposure.

### **Glossary of Terms**

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

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

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

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

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



**PORTLAND** CHICAGO NEW YORK

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