Public Fund Universe Analysis

Mendocino County Employees' Retirement Association

Period Ending December 31, 2016 Fund Number: 49

RVK

Firm Overview



OVERVIEW

RVK, Inc. ("RVK") was founded in 1985 and is one of the largest independent and employeeowned 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



RVK BY THE NUMBERS

- **30+** years of business
- 3 offices Portland, Chicago, New York
- \$700+ 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

SPECIALTY CONSULTING SERVICES

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

- Manager Structure Analysis
- **Risk Monitoring and Management**
- Client Education
- **Special Projects**
- 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

New York



Fund Number: 49 Participants

Alameda County Employees' Retirement Association Arlington County Employees' Retirement System City of Fresno Retirement Systems Civilian Employees' Retirement System of the Police Department of Kansas City, Missouri 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 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 Merced County Employees' Retirement Association Montana Teachers' Retirement System Municipality of Anchorage Pre-Funding Program New York State Common Retirement Fund North Carolina Retirement System Orange County Employees' Retirement System Pennsylvania State Employees' Retirement System Public School and Education ERS of Missouri San Diego County Employees Retirement Association San Joaquin County Employees' Retirement Association Santa Barbara County Employees' Retirement System South Dakota Retirement System

Anchorage Police & Fire Retirement System California State Teachers' Retirement System City of Milwaukee Employes' Retirement System Colorado Public Employees' Retirement Association

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 Kentucky Retirement Systems Kern County Employees' Retirement Association Los Angeles County Employees Retirement Association Los Angeles Water & Power Employees Retirement Plan Mendocino County Employees' Retirement Association (49) Montana Public Employees' Retirement System Municipal Employees' Annuity and Benefit Fund of Chicago 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 San Diego City Employees' Retirement System San Diego Transit Corporation Employees Retirement San Mateo County Employees' Retirement Association Sonoma County Employees' Retirement Association



State of New Jersey Pension Fund 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 Stanislaus County Employees' Retirement Association State Retirement and Pension System of Maryland 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



As of December 31, 2016

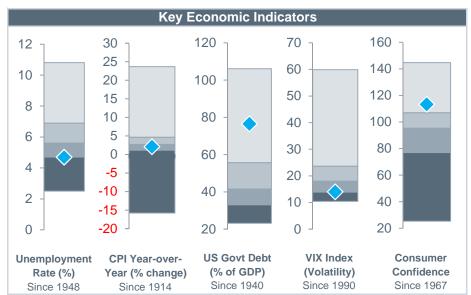
Fourth Quarter Economic Environment

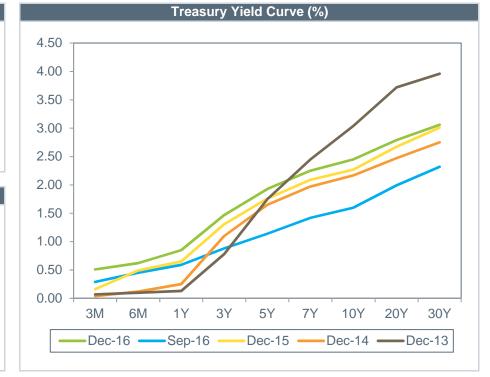
Key Economic Indicators

The surprising result of the United States presidential election produced an initial market shock, as US equity futures traded off nearly 5% during the night of November 8th. By morning however, the volatility and uncertainty gave way to renewed optimism for risk assets as markets contemplated the policy objectives and corresponding economic impact of the Trump administration's agenda. The bullish sentiment in the US cleared the path for the Federal Reserve Open Market Committee to raise the benchmark federal funds rate by 25 basis points during its December meeting. The move was widely anticipated, as economic data supported the Fed tightening at this point in the economic cycle. On November 30, 2016, OPEC announced a deal to cut oil production by 1.2 million barrels per day, the first cut since 2008, which drove the price of oil up nearly 10% on the day of the announcement. In Europe, the European Central Bank announced a moderation in the pace of asset purchases from €80 billion per month to €60 billion, but also extended the duration of the purchase program.

Economic Indicators	Dec-16		Sep-16	Dec-15	Dec-13	20 Yr
Federal Funds Rate (%)	0.55		0.29	0.20	0.07	2.35
Breakeven Infl 1 Yr (%)	1.27		0.95	0.85	1.50	N/A
Breakeven Infl 10 Yr (%)	1.97		1.61	1.58	2.23	N/A
CPI YoY (Headline) (%)	2.1		1.5	0.7	1.5	2.2
Unemployment Rate (%)	4.7		4.9	5.0	6.7	6.0
Real GDP YoY (%)	1.9		1.7	1.9	2.7	2.3
PMI - Manufacturing	54.50		51.70	47.90	56.00	52.20
USD Total Wtd Idx	95.76		90.01	94.25	76.15	86.86
WTI Crude Oil per Barrel (\$)	53.7		48.2	37.0	98.4	56.0
Gold Spot per Oz (\$)	1,152.3	▼	1,315.8	1,061.4	1,205.7	784.3

Market Darfermanes (0/)	OTD	OVTD	4	E Vr	40 V.
Market Performance (%)	QTD	CYTD	1 Yr	5 Yr	10 Yr
S&P 500 (Cap Wtd)	3.82	11.96	11.96	14.66	6.95
Russell 2000	8.83	21.31	21.31	14.46	7.07
MSCI EAFE (Net)	-0.71	1.00	1.00	6.53	0.75
MSCI EAFE SC (Net)	-2.86	2.18	2.18	10.56	2.95
MSCI Emg Mkts (Net)	-4.16	11.19	11.19	1.28	1.84
Bloomberg US Agg Bond	-2.98	2.65	2.65	2.23	4.34
BofA ML 3 Mo US T-Bill	0.08	0.33	0.33	0.12	0.80
NCREIF ODCE (Gross)	2.11	8.77	8.77	12.21	5.82
Wilshire US REIT	-2.28	7.24	7.24	12.02	4.80
HFRI FOF Comp	0.88	0.53	0.53	3.42	1.31
Bloomberg Cmdty (TR)	2.66	11.74	11.74	-8.96	-5.58





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



US Equity Review

As of December 31, 2016

Fourth Quarter Review

Broad Market

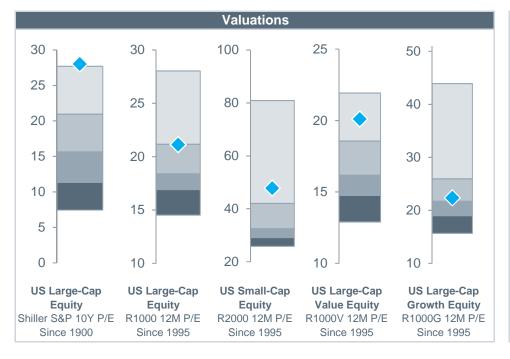
US equity markets started the fourth guarter with a slight decline, fueled largely by uncertainty surrounding the presidential election. However, results swiftly shifted post-election, and all major US equity indices finished the guarter and year in positive territory, with the Russell 3000 Index returning 4.2% and 12.7%, respectively.

Market Cap

While all major indices finished the guarter in positive territory, small cap led the way with the Russell 2000 returning 21.3% compared with 12.1% for the Russell 1000.

Style and Sector

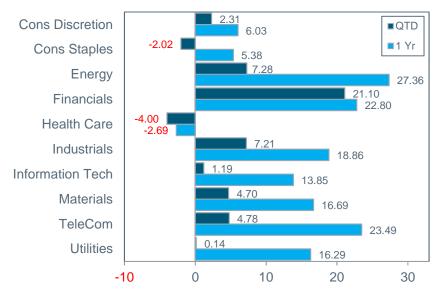
Value stocks outperformed growth across all market caps in 2016. Postelection, several sectors finished the year with a strong rally including: Consumer Discretionary (14.5%), Energy (28.0%), Financials (20.4%), and Producer Durables (18.2%).



Style and Capitalization Market Performance (%)



S&P 500 Index Sector Performance (%)



Valuation data courtesy of Bloomberg Professional Service and Robert J. Shiller, Irrational Exuberance, Second Edition. P/E metrics shown represent the 5th through 95th percentiles to minimize the effect of outliers.



Non-US Equity Review

As of December 31, 2016

Fourth Quarter Review

Developed Markets

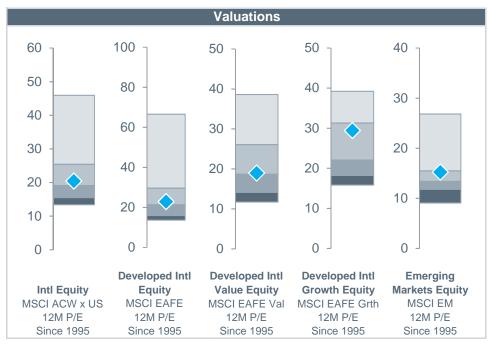
Developed international markets ended the quarter slightly negative, but were positive for the year. Cyclical sectors, such as financials and energy, provided positive contributions for the quarter. By country, there were few bright spots, with only a few European countries posting positive returns in Q4.

Emerging Markets

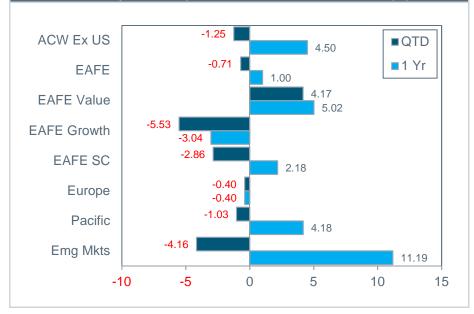
Emerging Markets underperformed developed markets by a significant margin for the quarter. Year-end returns remained strong, but lagged US equities. Poor performance in emerging markets this quarter stemmed from fears that stimulus programs in the US could lead to higher bond yields and a stronger dollar, which may draw significant capital to the currency.

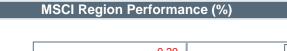
Market Cap & Style

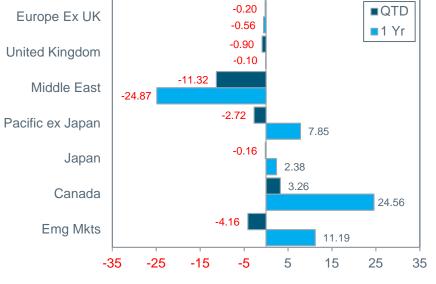
Value stocks outperformed growth stocks for both the quarter and year while small-cap lagged large-cap for the quarter, but outperformed for the year.



MSCI Style and Capitalization Market Performance (%)







🙏 RVK

Valuation data courtesy of Bloomberg Professional Service.

P/E metrics shown represent the 5th through 95th percentiles to minimize the effect of outliers. All returns are shown net of foreign taxes on dividends.

Fixed Income Review

Fourth Quarter Review

Broad Market

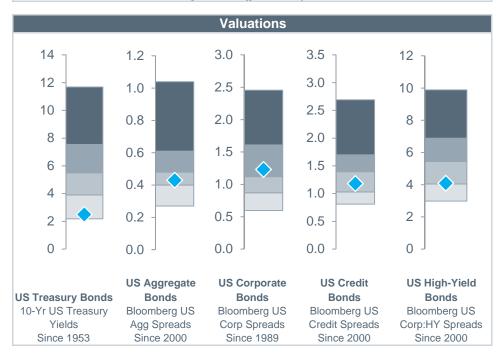
Recent and anticipated interest rate hikes negatively affected bond market returns for the guarter. The Bloomberg Barclays US Aggregate Bond Index ended the year with a return of 2.7% after returning -3.0% during Q4. Long duration government bonds, which are particularly sensitive to interest rate movements, returned -11.5% for the guarter and ended the year with a return of 1.4% as measured by the Bloomberg Barclays Long US Government Index.

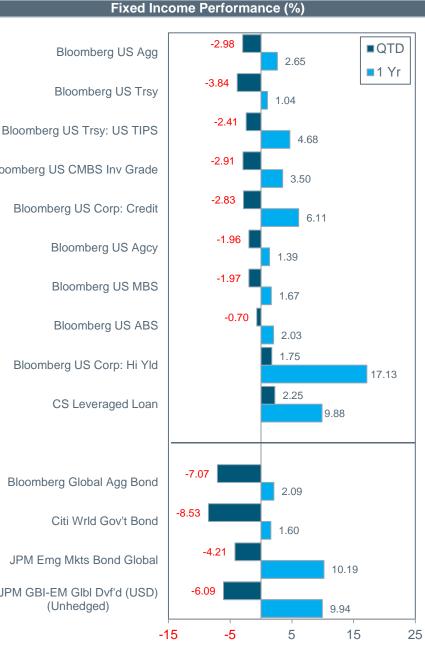
Credit Market

Investment grade and high yield credit spreads compressed during the guarter as investors' increased their appetite for credit. The BofAML US High Yield Index returned 17.5% for the guarter – its best return since 2009.

International

Foreign debt from both developed and emerging markets declined significantly during the guarter as the US dollar strengthened. The sharpest decline occurred immediately following the US presidential election.





Valuation data courtesy of Bloomberg Professional Service.

Valuations shown represent the 5th through 95th percentiles to minimize the effect of outliers.



Bloomberg US CMBS Inv Grade

Bloomberg US Corp: Credit

JPM Emg Mkts Bond Global JPM GBI-EM GlbI Dvf'd (USD)

Page 9

Fourth Quarter Review - Absolute Return

General Market - Hedge Funds

The fourth quarter wrapped up a mixed year for the hedge fund industry. Individual hedged equity managers had another difficult quarter from an alpha perspective, with early reports indicating the second worst quarter of alpha generation since 2010, in part due to sector rotations out of technology, consumer, and health care following the November elections. Poor performance from short books was a main detractor for many managers that delivered disappointing alpha and absolute returns. The best performing strategies for the year continued to be in the distressed/restructuring space.

General Market - Global Tactical Asset Allocation (GTAA)

Most GTAA managers underperformed an undiversified and static 60/40 portfolio of US large cap equity and US fixed income. Managers that focus on lower-volatility and low correlation alpha provided the strongest performance for the quarter, as long dollar, short US duration, and credit positions were rewarded in a welcome break from a challenging year for these managers.

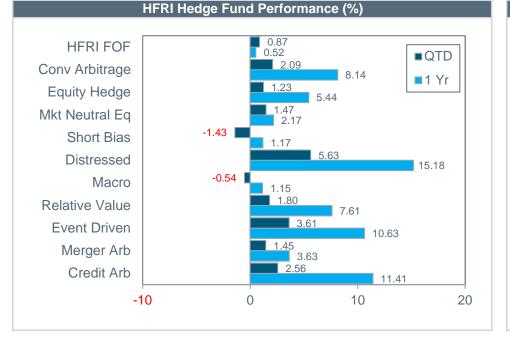
Fourth Quarter Review - Real Assets

General Market - Diversified Inflation Strategies (DIS)

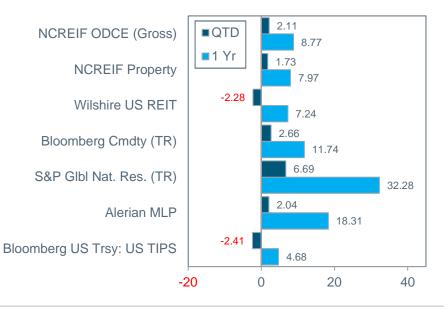
While most managers ended the year in positive territory, the fourth quarter proved challenging due to macroeconomic events. Managers with larger energy commodity exposure and natural resource equity exposure led the group during both the quarter and year. Managers with larger infrastructure and REIT allocations posted negative performance during the quarter as these asset classes initially appeared correlated with increased bond yields. Those that structurally allocate to TIPS at the expense of REITs, infrastructure, and natural resource equity ended the quarter at the approximate midpoint of the group.

General Market - Real Estate

Investors responded to recent US political events and interest rate increases by selling off REITs, as evidenced by the -3.5% return in the FTSE/NAREIT US Real Estate Index during the quarter. The NCREIF-ODCE Index returned 2.1% for the quarter based on preliminary results, with a nearly equal share of returns deriving from income and appreciation.









	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	3 2014	2015	2016
Best	25.91	61.34	33.16	34.00	35.97	39.38	8.44	78.51	28.60	22.49	20.00	38.82	2 31.78	15.02	21.31
↑	16.56	55.81	31.45	26.19	32.18	16.23	5.24	58.21	26.85	15.99	18.23	32.3	9 19.31	9.59	17.13
	14.84	47.25	25.55	21.39	26.34	15.97	2.06	46.78	22.04	13.56	17.59	29.3	0 13.69	4.23	11.96
	10.27	38.59	20.25	21.36	19.31	11.63	-2.35	31.78	18.88	9.24	17.32	2 22.78	3 12.50	1.38	11.74
	5.54	36.18	18.33	13.82	18.37	11.17	-10.01	28.60	16.83	7.84	16.3	5 13.94	4 5.97	0.55	11.19
	3.58	28.96	13.06	13.54	16.32	10.25	-21.37	27.17	16.36	4.98	16.00) 8.96	4.89	0.05	8.77
	1.78	28.68	11.14	7.49	15.79	6.97	-26.16	26.46	15.12	2.11	15.81	I 7.44	3.64	-0.27	7.24
	1.02	23.93	10.88	5.34	11.86	6.60	-33.79	18.91	15.06	0.10	10.94	1.86	3.37	-0.81	6.67
	-1.37	11.61	9.15	4.91	10.39	5.49	-35.65	11.47	10.16	-4.18	8.78	0.07	2.45	-1.44	4.68
	-6.17	9.28	8.56	4.55	4.85	5.00	-37.00	11.41	7.75	-5.72	6.98	-2.02	0.04	-3.30	2.65
	-7.83	8.39	8.46	3.07	4.34	1.87	-39.20	5.93	6.54		4.79	-2.60) -2.19	-4.41	2.18
		5.88	6.86	2.84	2.72	1.45	-43.38	1.92	6.31	-13.32	4.21	-8.61	-4.90	-4.47	1.00
+	-20.48	4.11	4.34	2.74	2.07	-1.57	-47.01	0.21	5.70	-15.94	0.11	-8.83	-4.95	-14.92	0.52
Worst	-22.10	1.15	1.33	2.43	0.49	-17.55	-53.33	-29.76	0.13	-18.42	-1.06	-9.52	2 -17.01	I -24.66	0.33
S&P 50 US Lary Cap	ge US Si	mall (Net)	- Int'l S	SCI EAFE C (Net) - Int'I SC	MSCI EM (Net) - Int'l Emg Mkts	Bloombrg US Agg Bond - Fl	Bloombrg US Corp: Hi Yield - Fl	Bloombrg US Trsy: US TIPS - FI	US Gov/Cre	OD	CE ss) -	Wilshire IS REIT - REITs	HFRI FOF Comp Index - ARS	Cmdty (TR)	BofA ML 3 Mo T-Bill - Cash Equiv

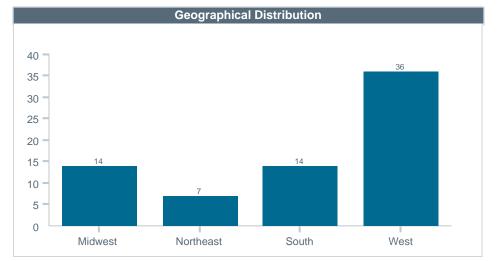
NCREIF ODCE (Gross) performance is reported quarterly; performance is shown N/A in interim-quarter months.

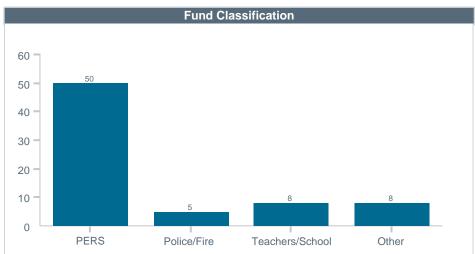


As of December 31, 2016

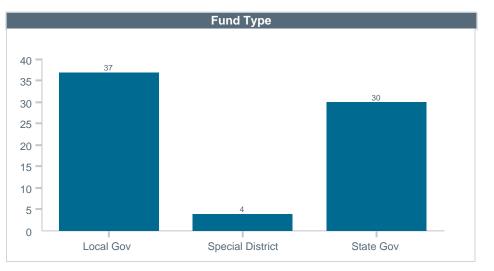
Fund Number: 49 Universe Characteristics





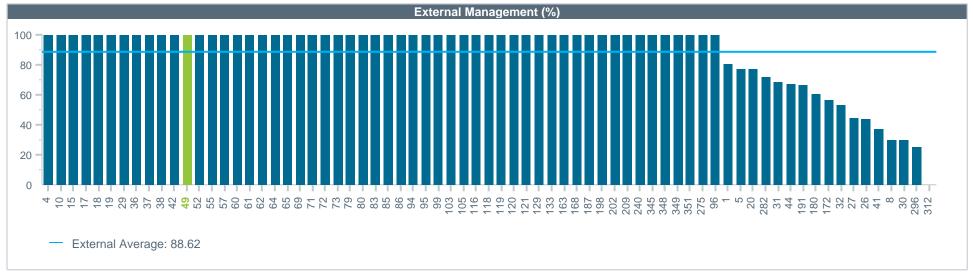


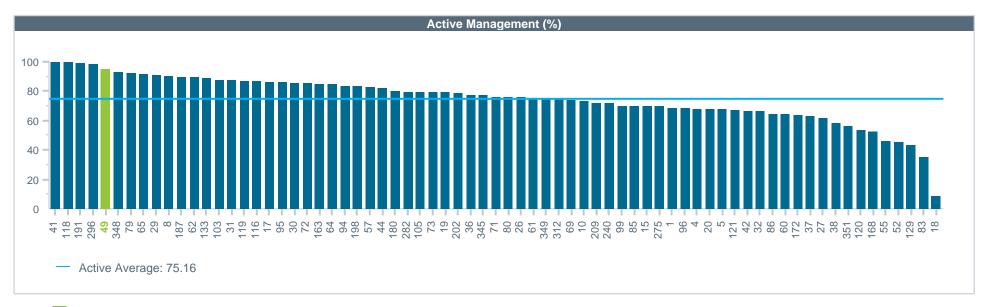
Universe: 71 funds





Percentage Externally Managed & Percentage Actively Managed





Mendocino County ERA



Fund Number: 49 Portfolio Management Statistics

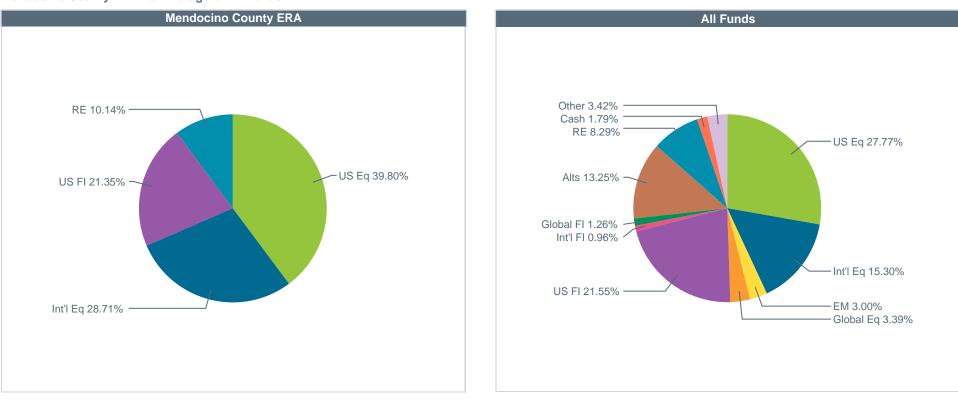
	Actively Managed (%)	Passively Managed (%)	Externally Managed (%)	Internally Managed (%)
Asset Range				
Over \$20B	75.30	24.70	73.22	26.78
\$10B-\$20B	72.53	27.47	82.57	17.43
\$5B-\$10B	70.45	29.55	96.71	3.29
\$1B-\$5B	77.32	22.68	98.79	1.21
\$500mm-\$1B	71.89	28.11	99.99	0.01
Under \$500mm	80.84	19.16	100.00	0.00
Mendocino County ERA	95.00	5.00	100.00	0.00

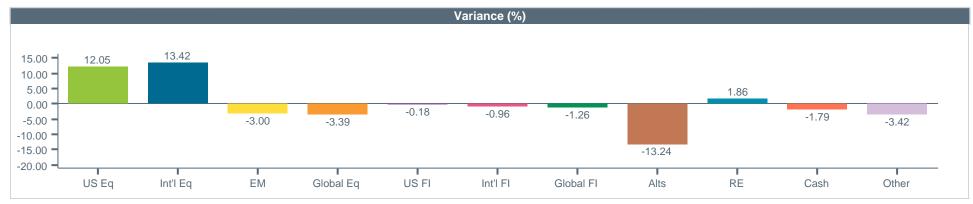
	Active Ma	anagement	External Ma	anagement
Portfolio (%)	Public Fund Universe	Mendocino County ERA	Public Fund Universe	Mendocino County ERA
90 to 100	11	1	54	1
50 to 89	55	0	10	0
10 to 49	4	0	6	0
Less than 10	1	0	1	0
Total Funds Reporting	71	1	71	1



Asset Allocation

Mendocino County ERA vs. Average of All Funds

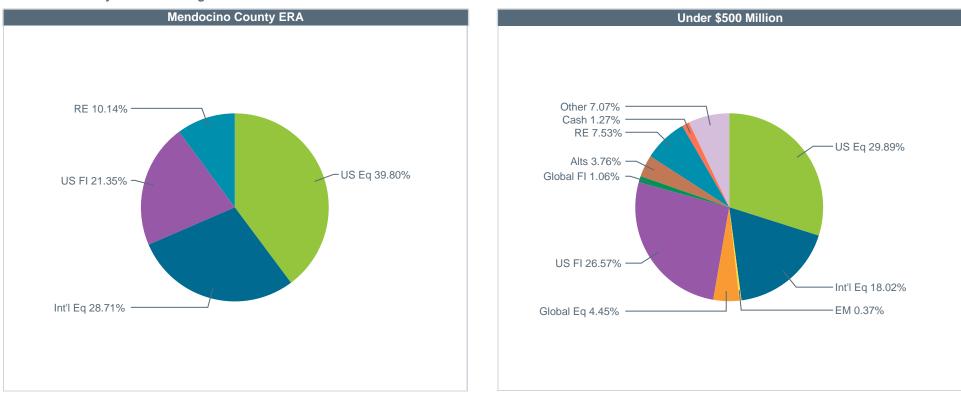


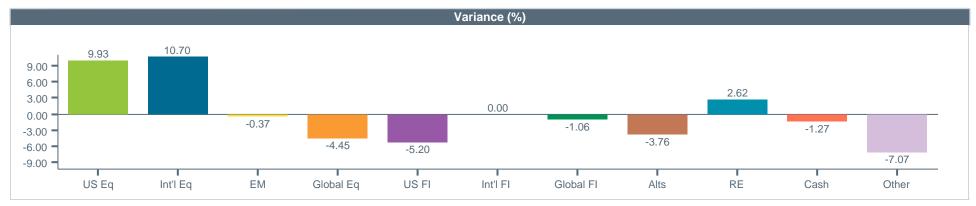




Asset Allocation

Mendocino County ERA vs. Average of Similar Size Funds

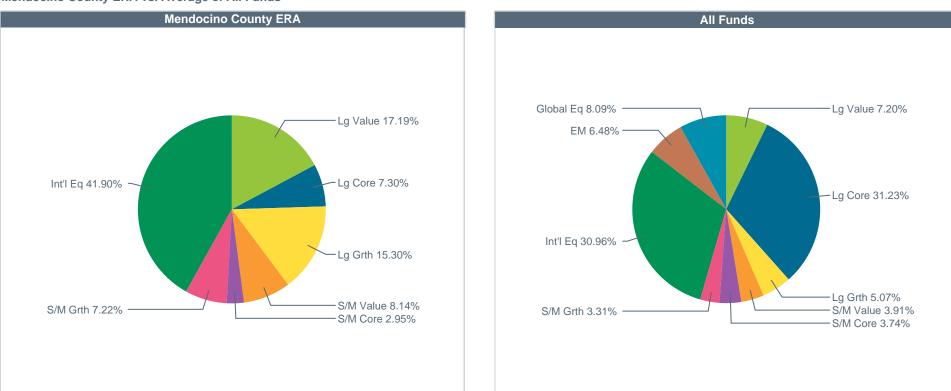




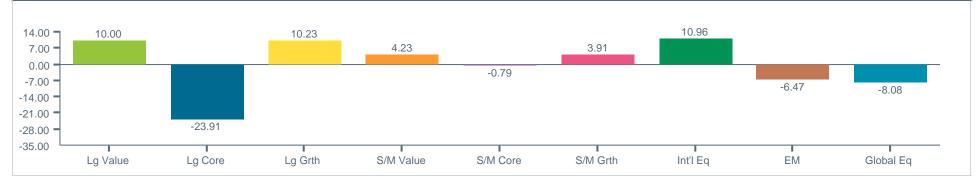


Equity Style Allocation

Mendocino County ERA vs. Average of All Funds



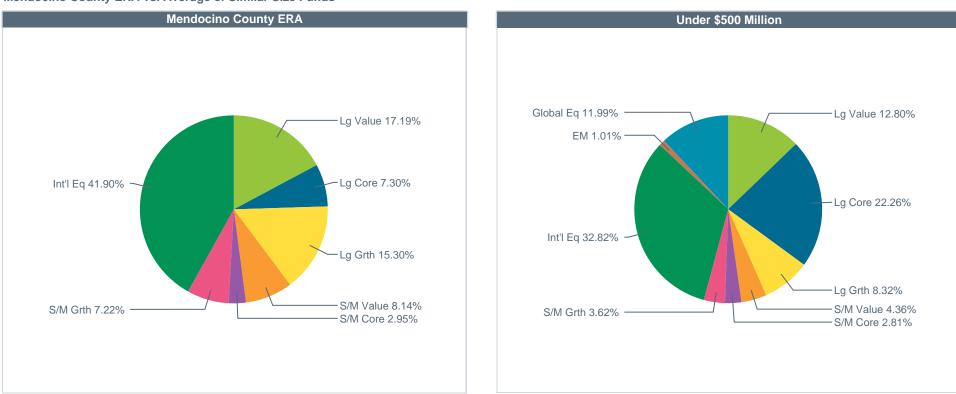
Variance (%)



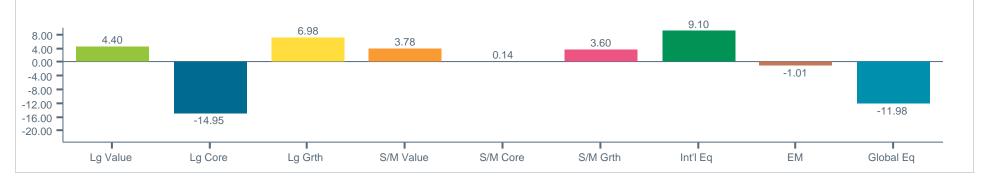


Equity Style Allocation

Mendocino County ERA vs. Average of Similar Size Funds

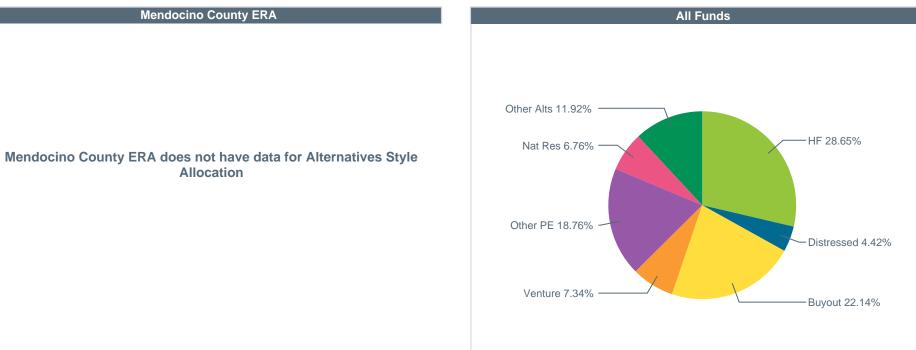


Variance (%)





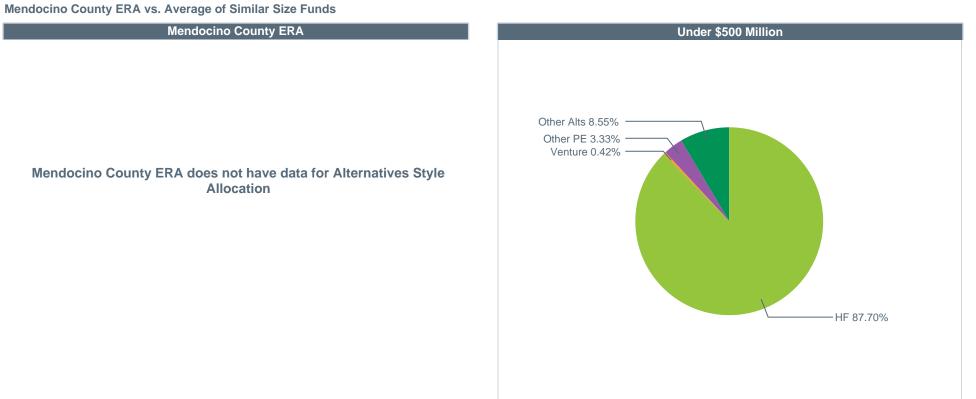




Variance (%)

Mendocino County ERA does not have data for Alternatives Style Allocation

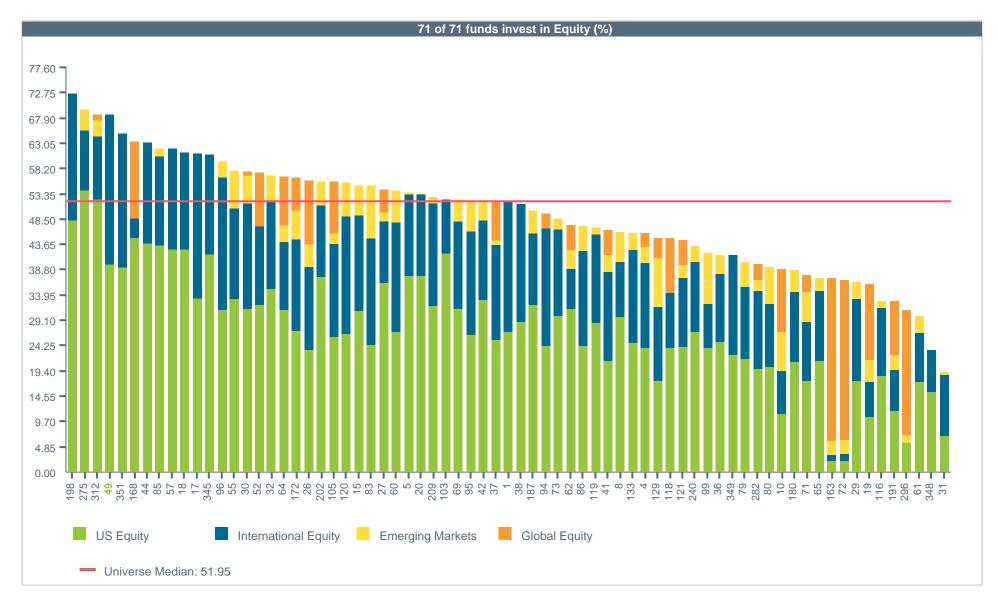




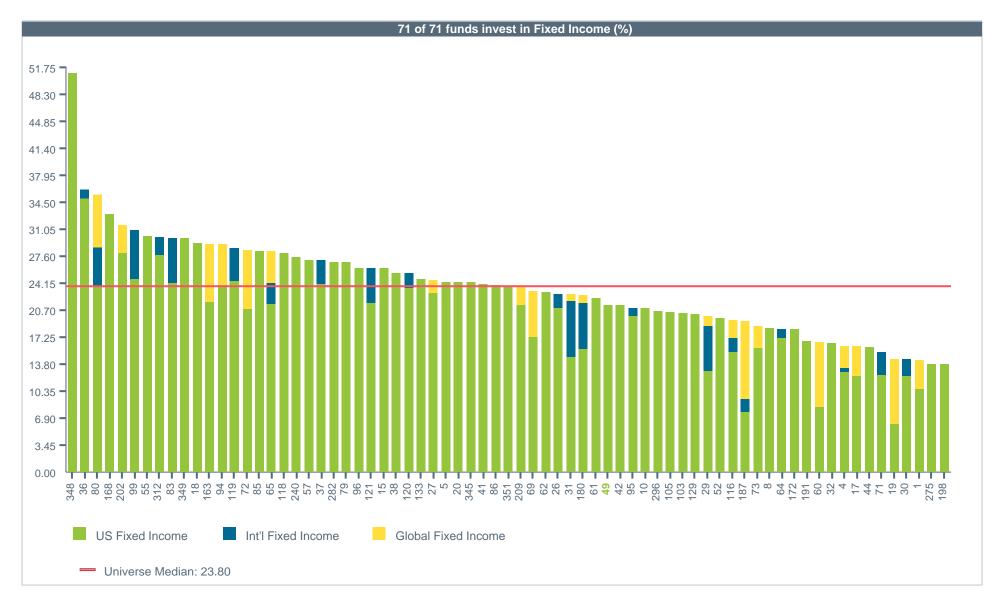
Variance (%)

Mendocino County ERA does not have data for Alternatives Style Allocation

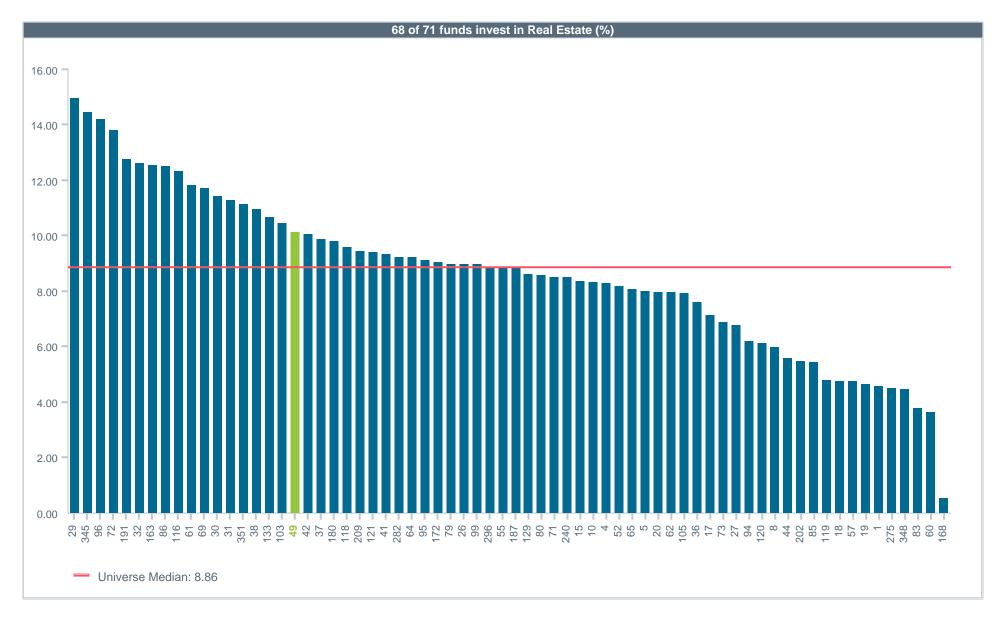










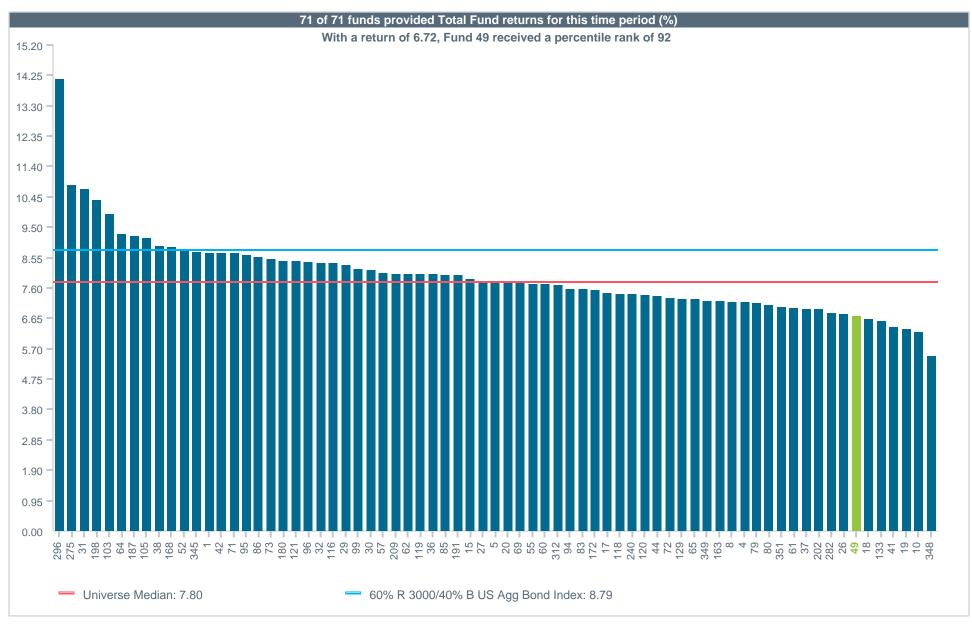






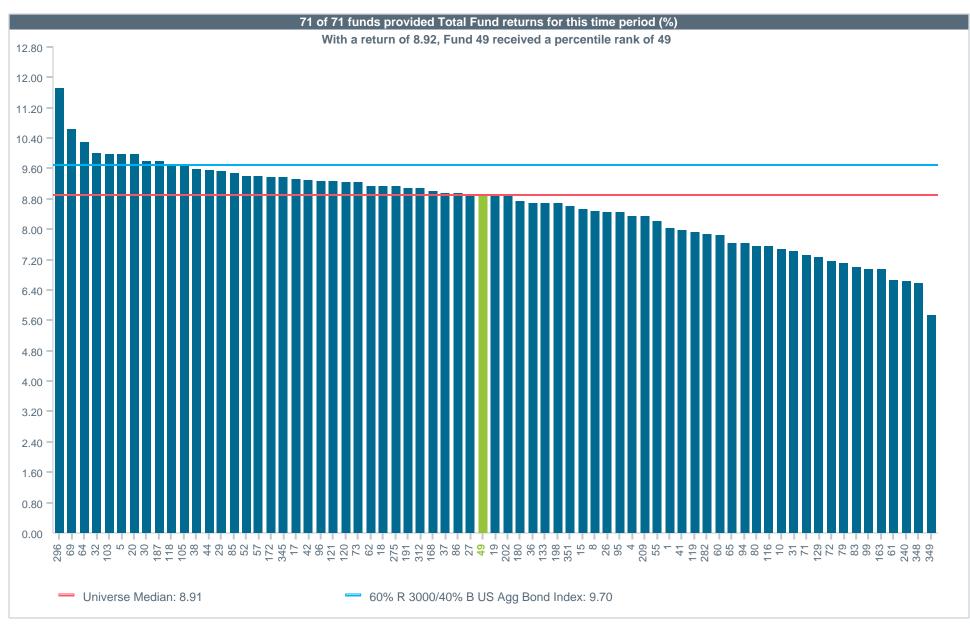


Fund Number: 49 1 Year Annualized Total Fund Returns





Fund Number: 49 5 Year Annualized Total Fund Returns





Fund Number: 49 10 Year Annualized Total Fund Returns

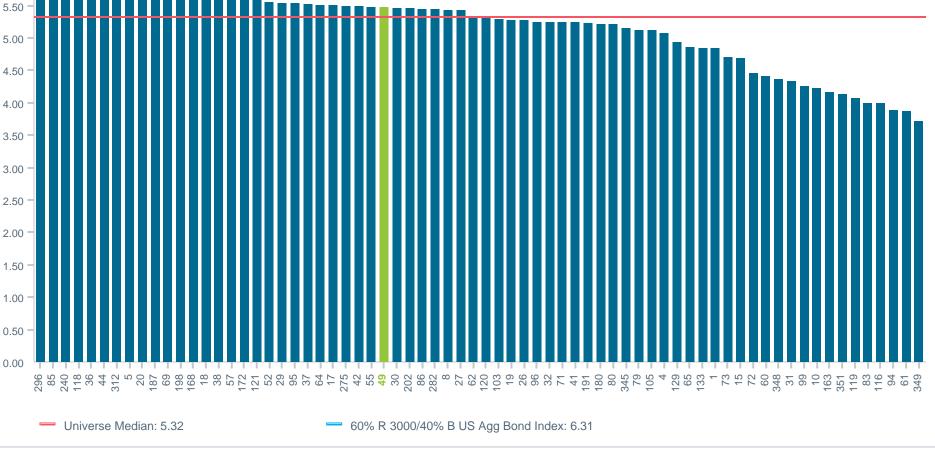
7.50

7.00

6.50

6.00

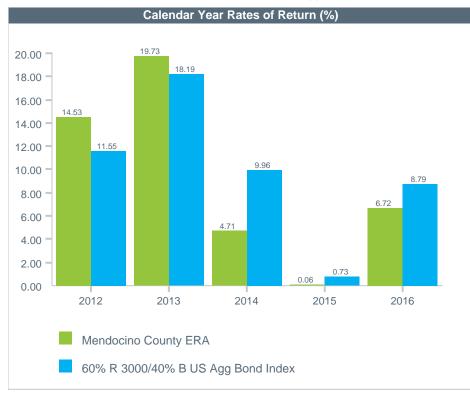


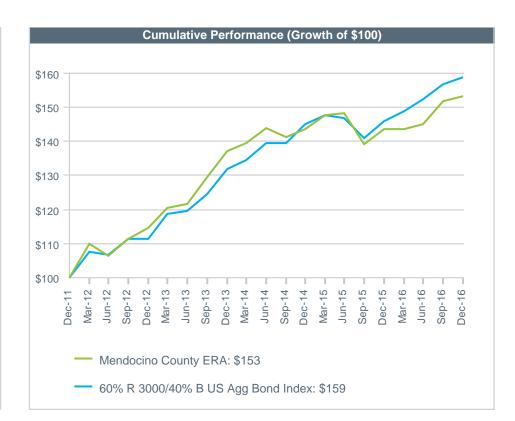




Total Return - Total Fund

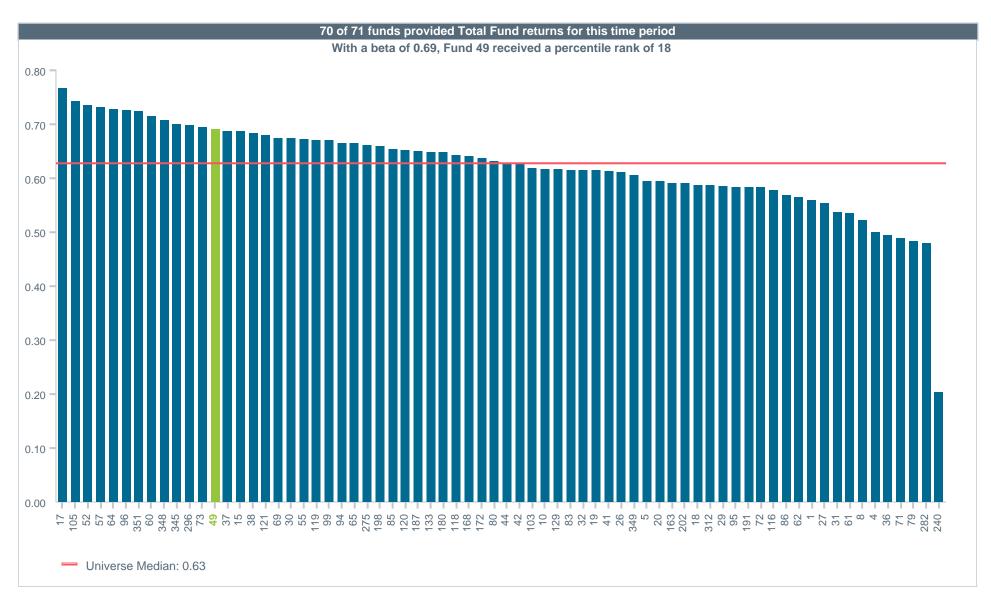
Mendocino County ERA vs. 60% R 3000/40% B US Agg Bond Index





	Annualized Returns (%)				
	1 Year	3 Years	5 Years		
Mendocino County ERA	6.72	3.79	8.92		
60% R 3000/40% B US Agg Bond Index	8.79	6.41	9.70		
Variance	-2.07	-2.62	-0.78		

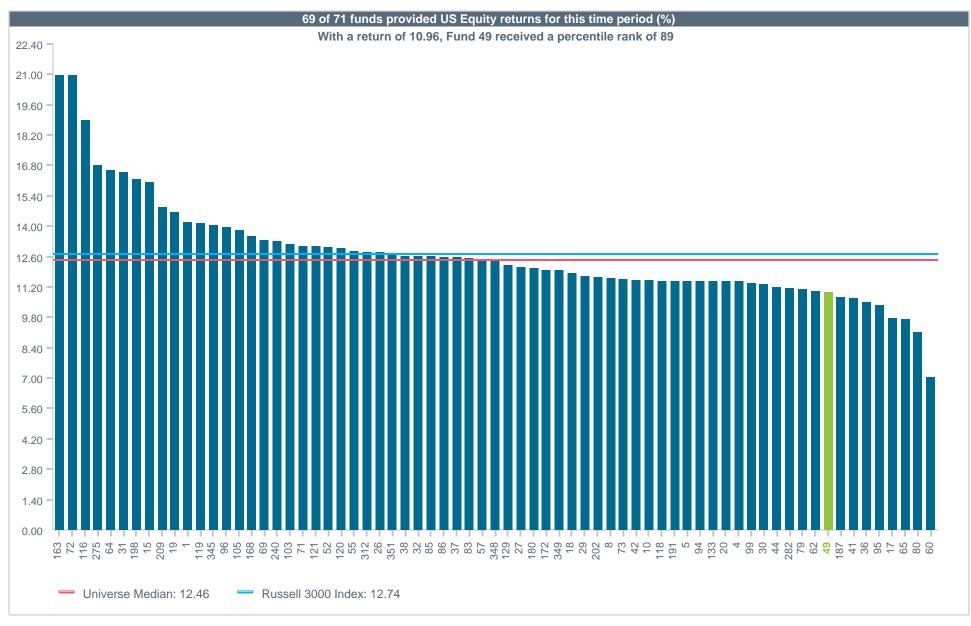




Funds with less history than the specified time period will not appear in the chart. Benchmark used is the S&P 500 Index (Cap Wtd).

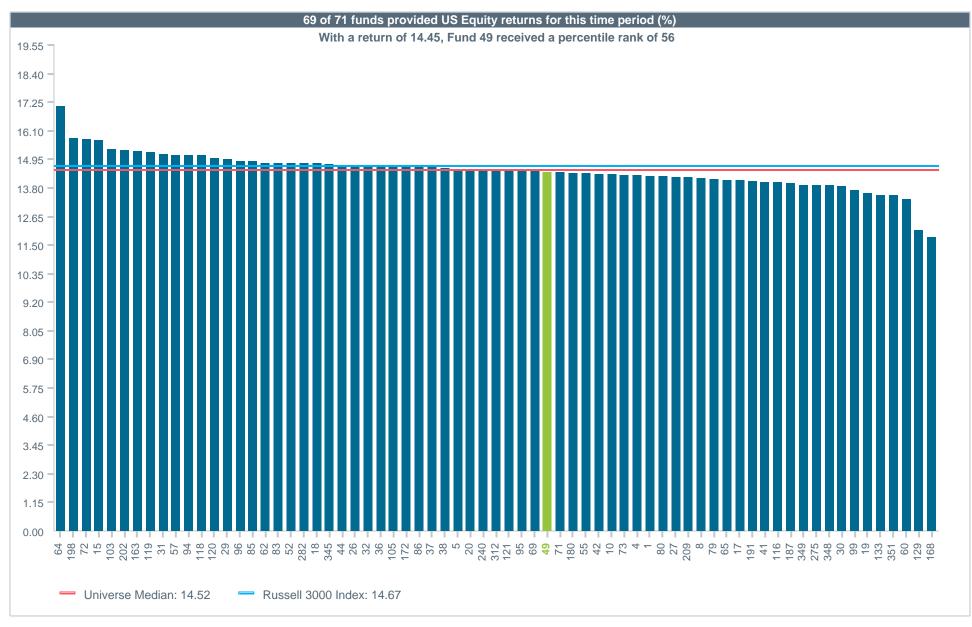


Fund Number: 49 1 Year Annualized US Equity Returns

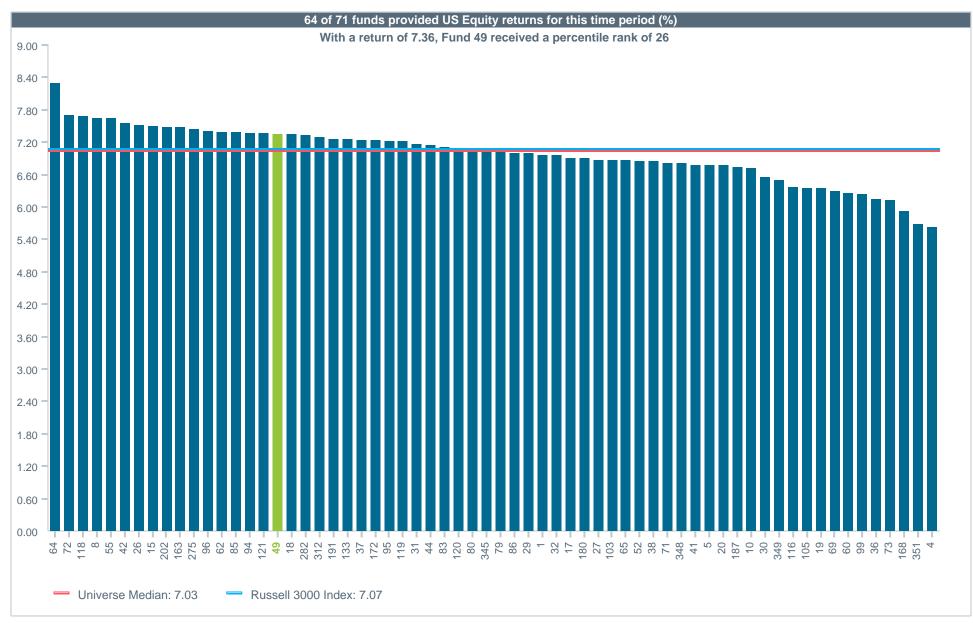




Fund Number: 49 5 Year Annualized US Equity Returns



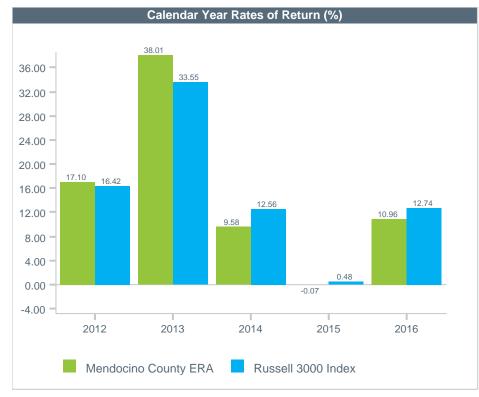


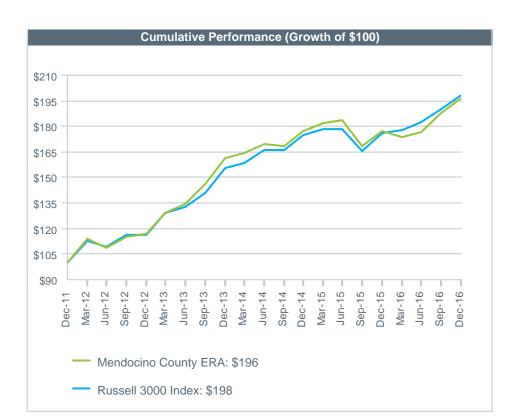




Total Return - US Equity

Mendocino County ERA vs. Russell 3000 Index

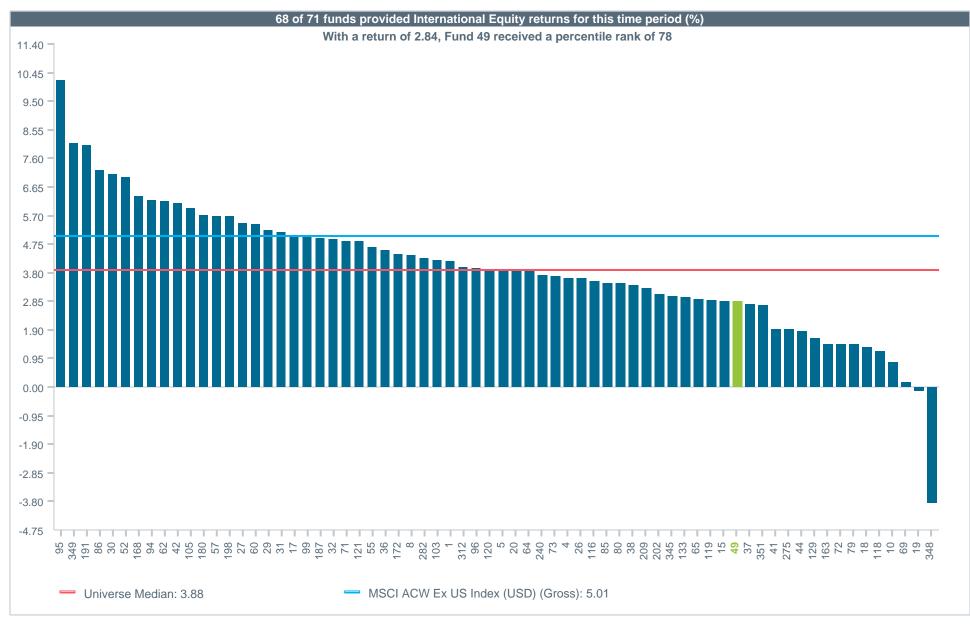




	Annualized Returns (%)				
	1 Year	3 Years	5 Years		
Mendocino County ERA	10.96	6.71	14.45		
Russell 3000 Index	12.74	8.43	14.67		
Variance	-1.78	-1.72	-0.22		

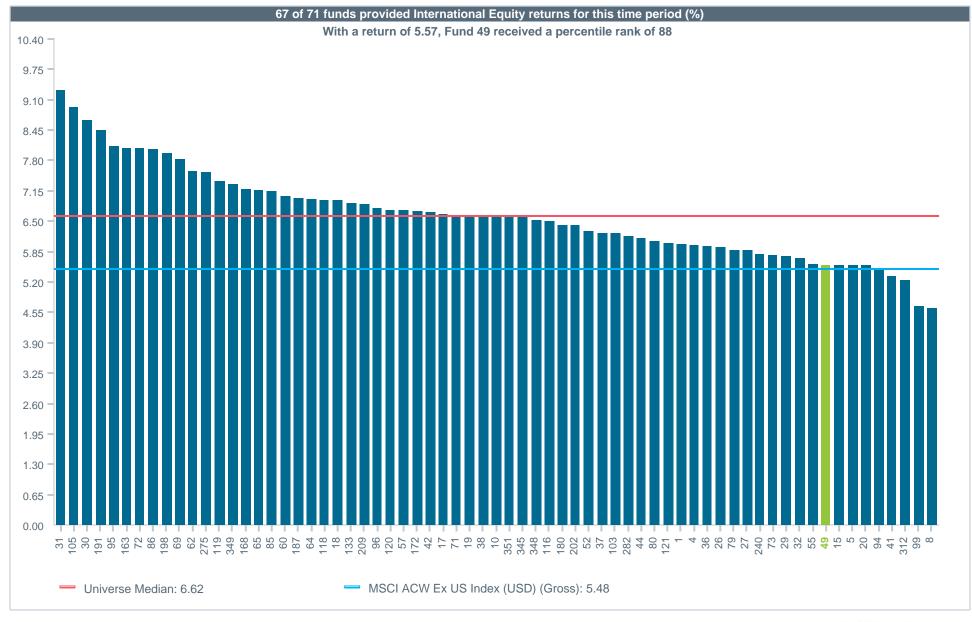


1 Year Annualized International Equity Returns

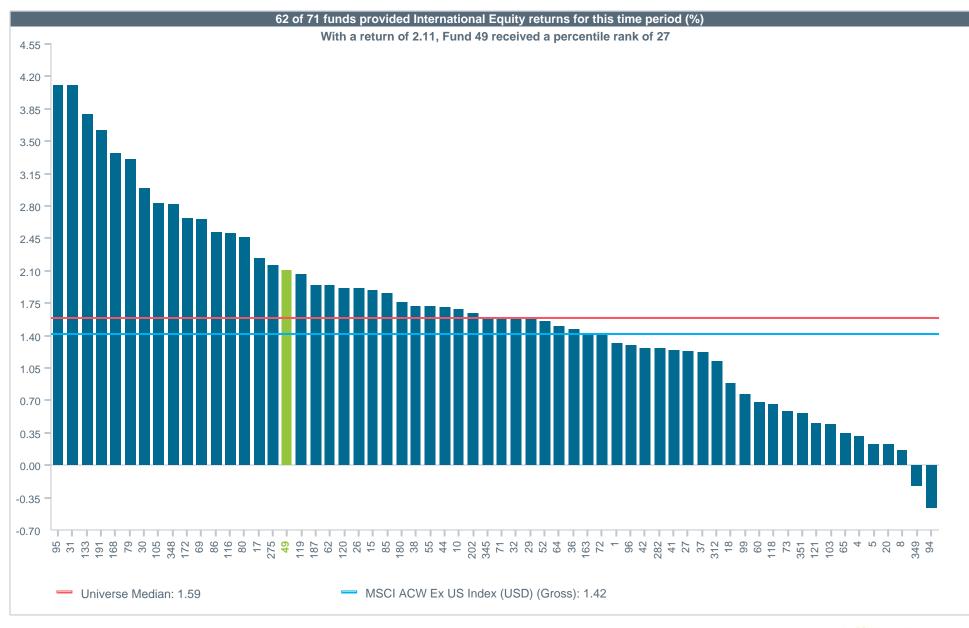




Fund Number: 49 5 Year Annualized International Equity Returns

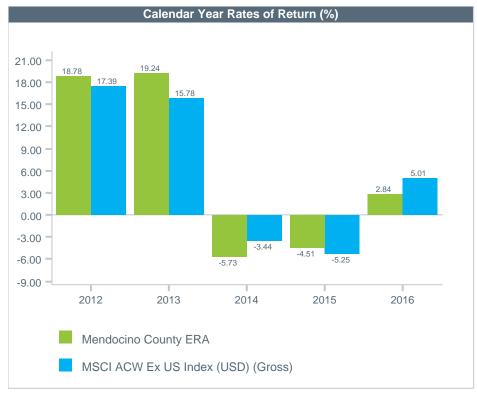


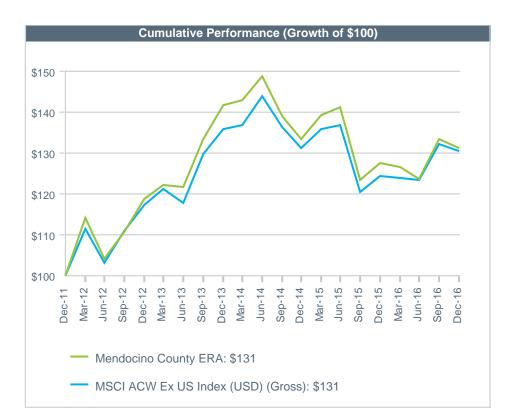




Total Return - International Equity

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

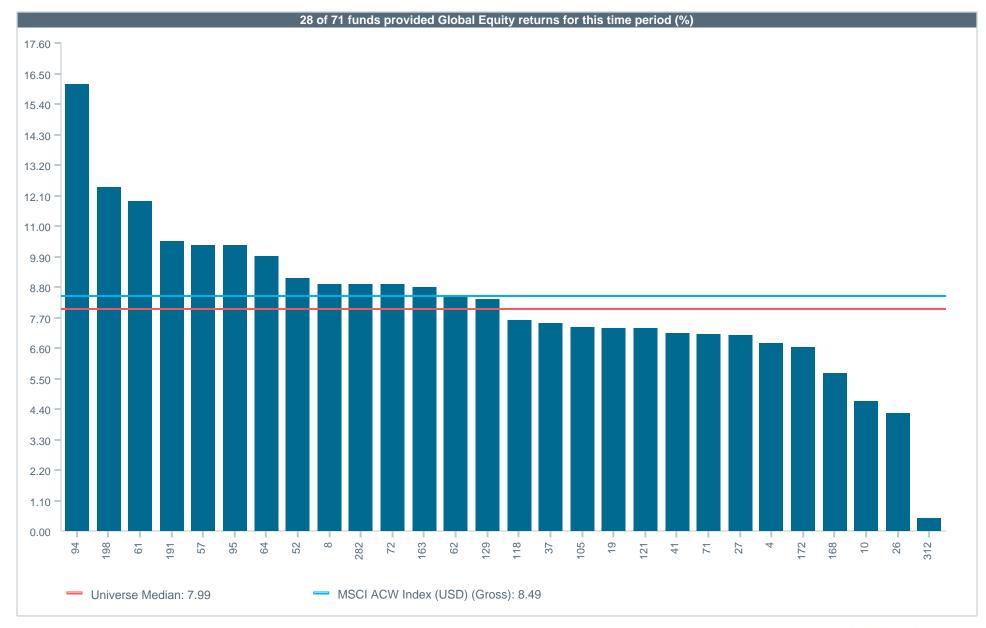




Annualized Returns (%)					
	1 Year	3 Years	5 Years		
Mendocino County ERA	2.84	-2.54	5.57		
MSCI ACW Ex US Index (USD) (Gross)	5.01	-1.32	5.48		
Variance	-2.17	-1.22	0.09		



1 Year Annualized Global Equity Returns

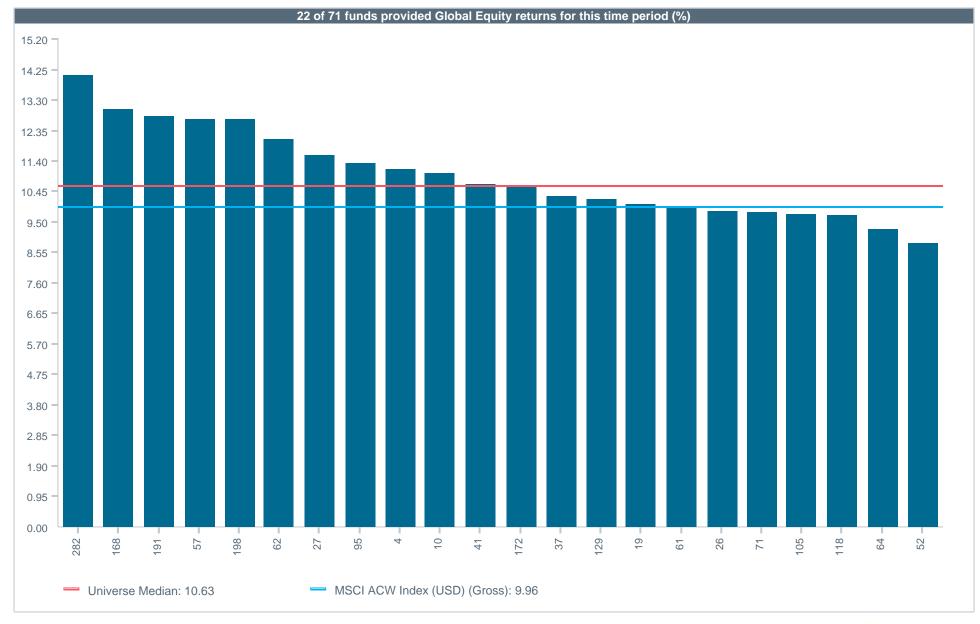


Funds with less history than the specified time period will not appear in the chart.



RVK

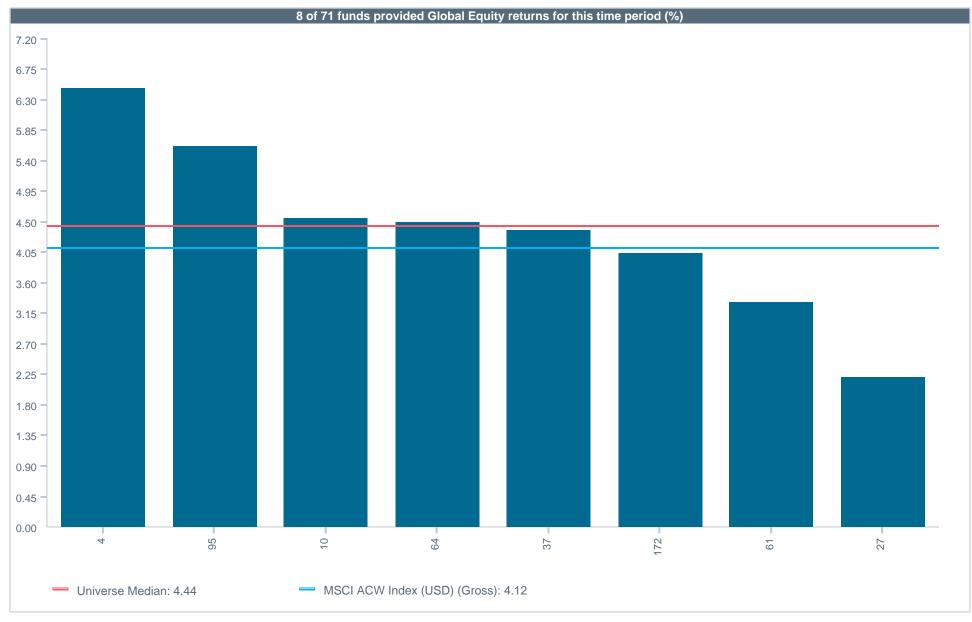
Fund Number: 49 5 Year Annualized Global Equity Returns



Funds with less history than the specified time period will not appear in the chart.



RVK





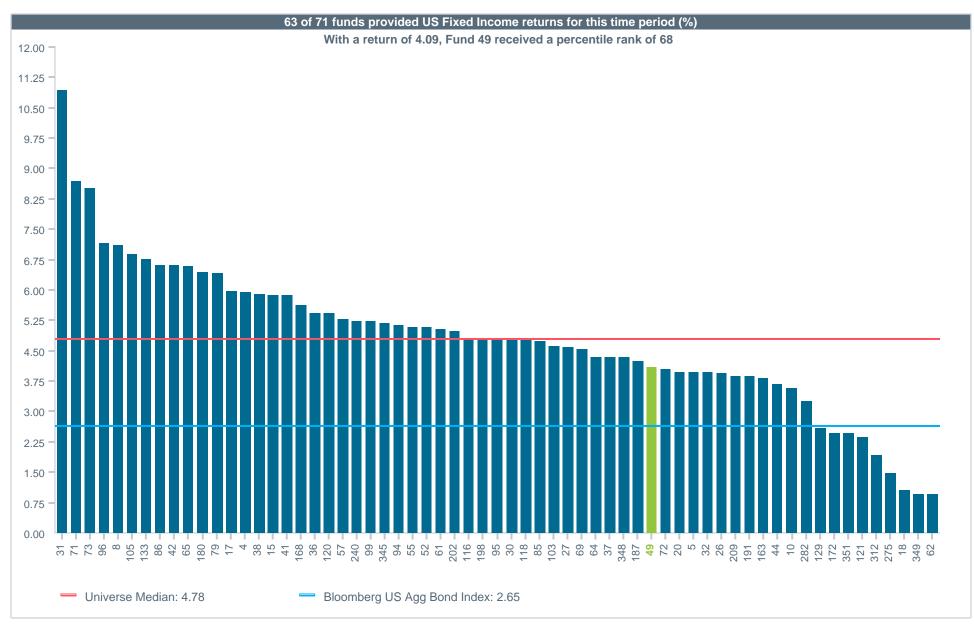
Total Return - Global Equity

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

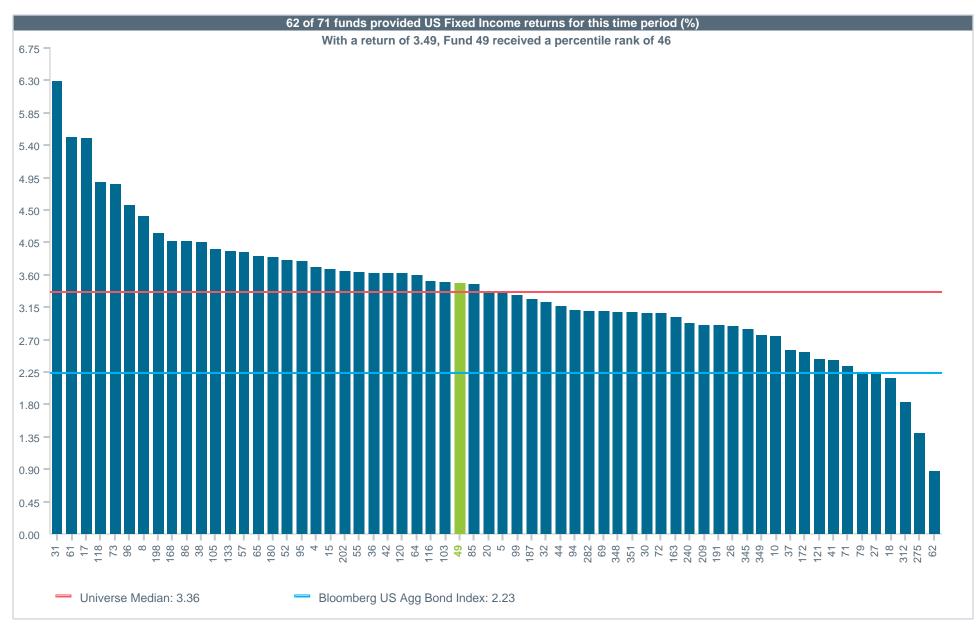
Calendar Year Rates of Return (%)	Cumulative Performance (Growth of \$100)
Mendocino County ERA does n	not have return data for Global Equity

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		

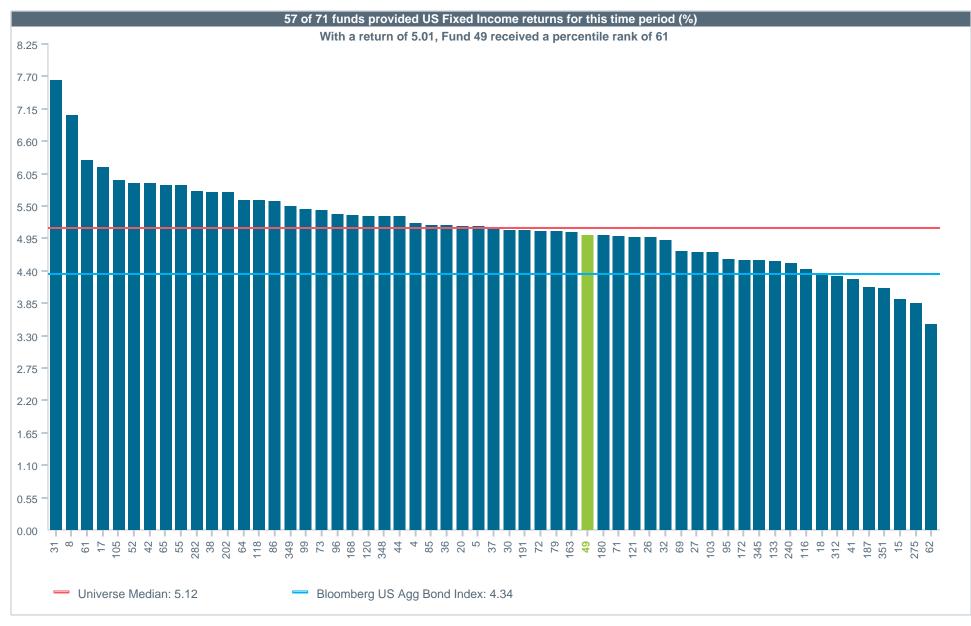








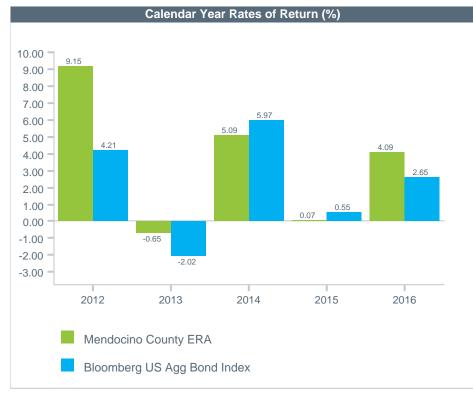






Total Return - US Fixed Income

Mendocino County ERA vs. Bloomberg US Agg Bond Index

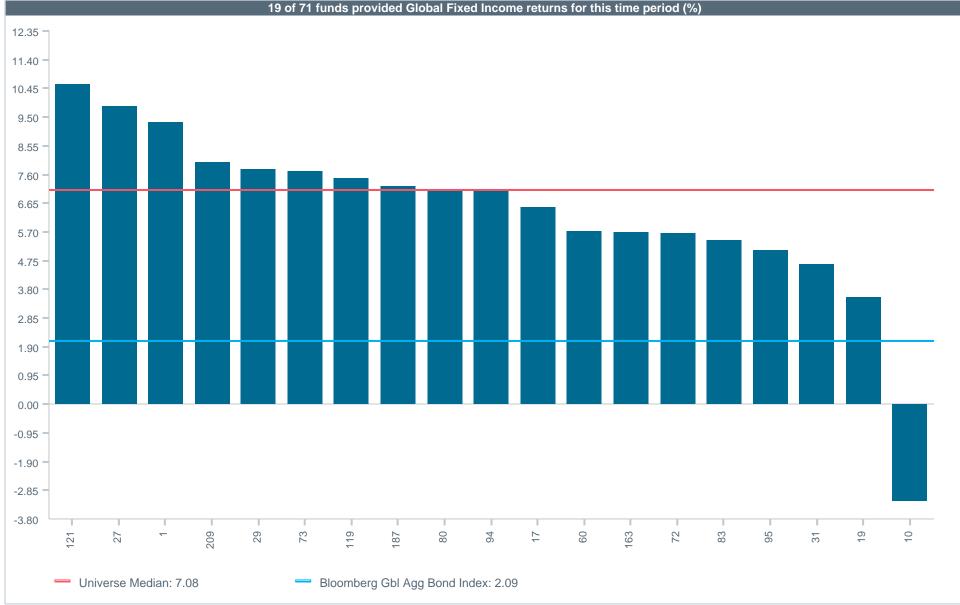




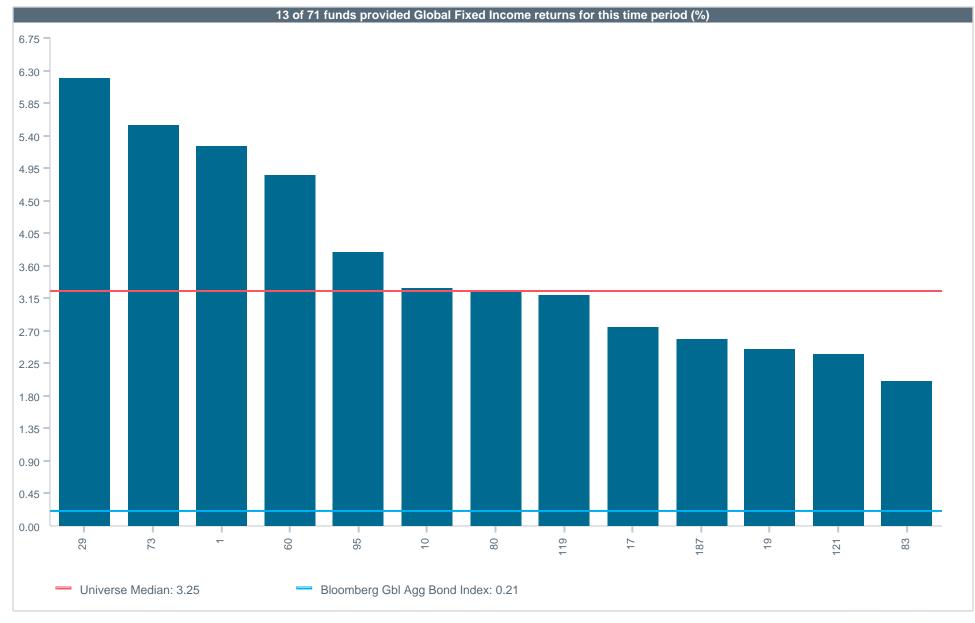
Annualized Returns (%)					
	1 Year	3 Years	5 Years		
Mendocino County ERA	4.09	3.06	3.49		
Bloomberg US Agg Bond Index	2.65	3.03	2.23		
Variance	1.44	0.03	1.26		



1 Year Annualized Global Fixed Income Returns









7.50

7.00 -

6.50 -

6.00 -

5.50

5.00 -

4.50 -

4.00 -

3.50

3.00

2.50

2.00 -

1.50

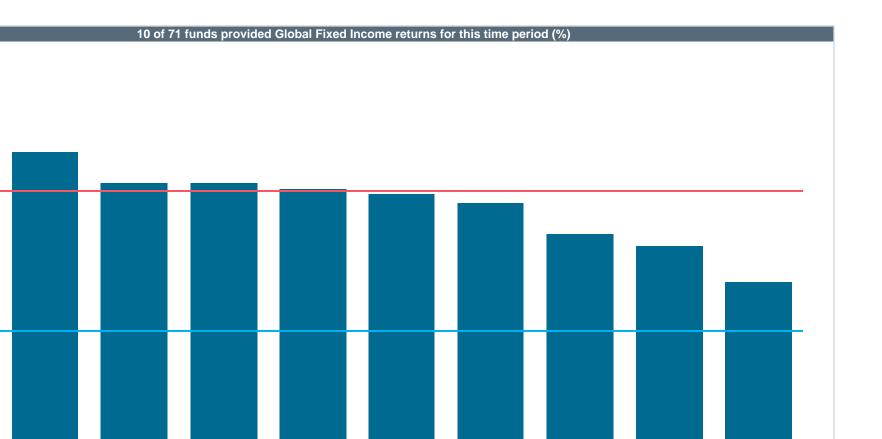
1.00

0.50

0.00

29

Universe Median: 5.44



Bloomberg Gbl Agg Bond Index: 3.29

~

Funds with less history than the specified time period will not appear in the chart.

60

.

17



83

80

187

19

119

95

Total Return - Global Fixed Income

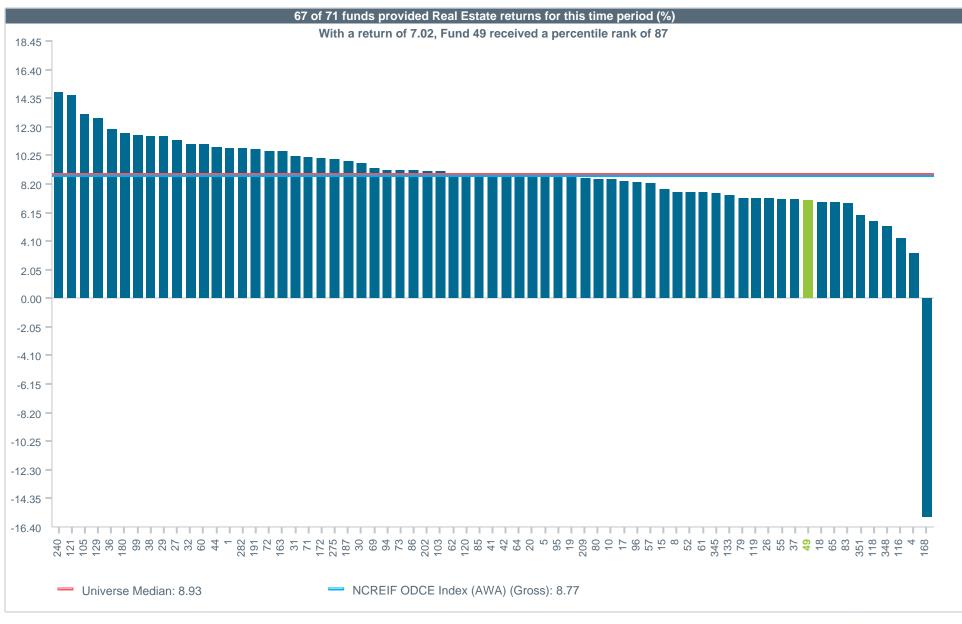
Mendocino County ERA vs. Bloomberg Gbl Agg Bond Index

Calendar Year Rates of Return (%)	Cumulative Performance (Growth of \$100)
Mendocino County ERA does not h	ave return data for Global Fixed Income

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	

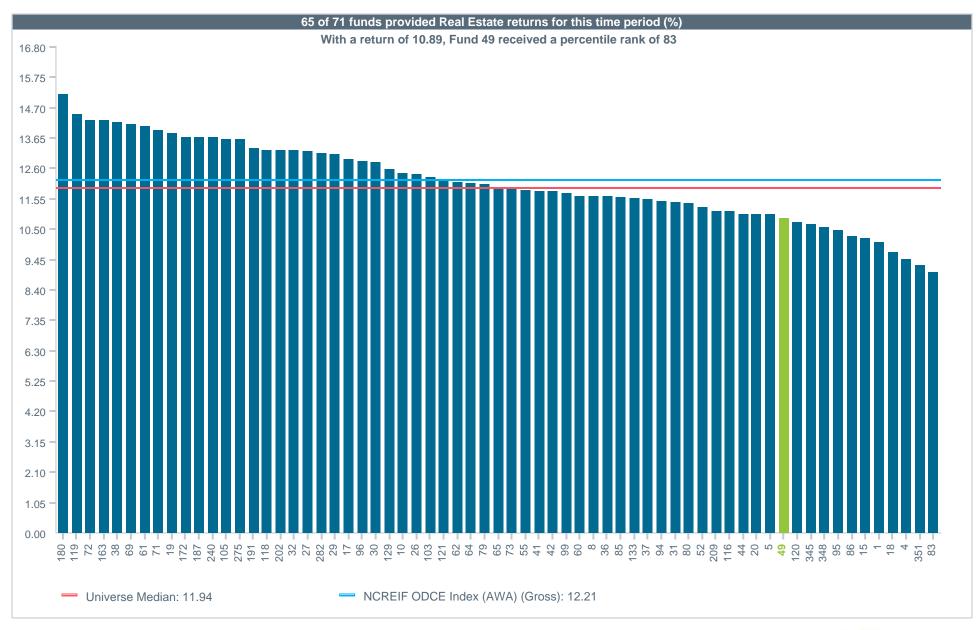


Fund Number: 49 1 Year Annualized Real Estate Returns

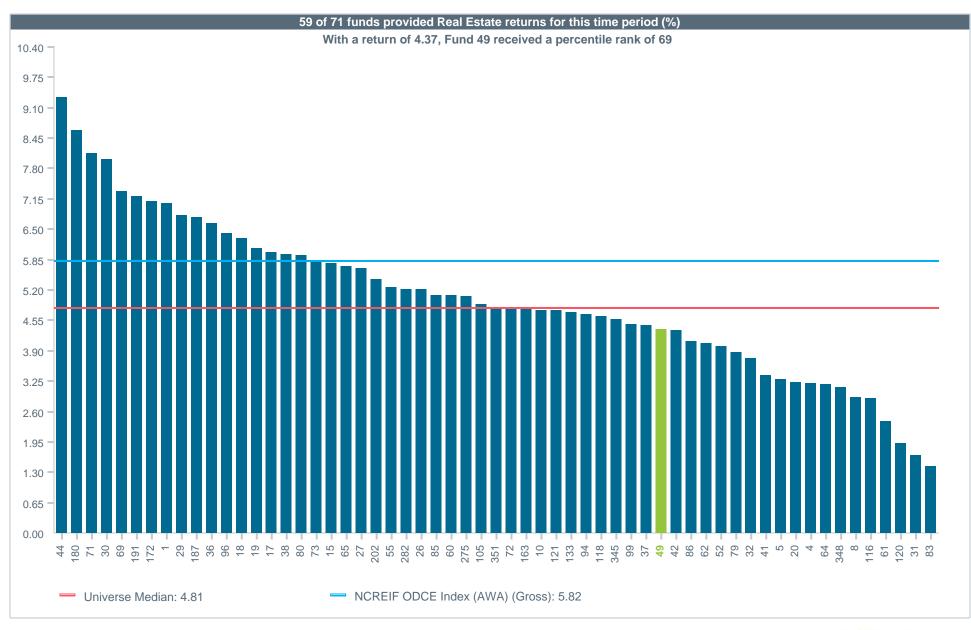




Fund Number: 49 5 Year Annualized Real Estate Returns



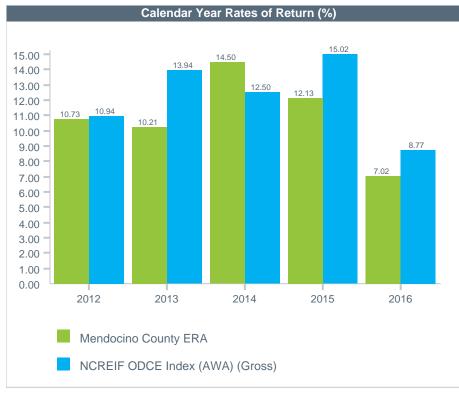


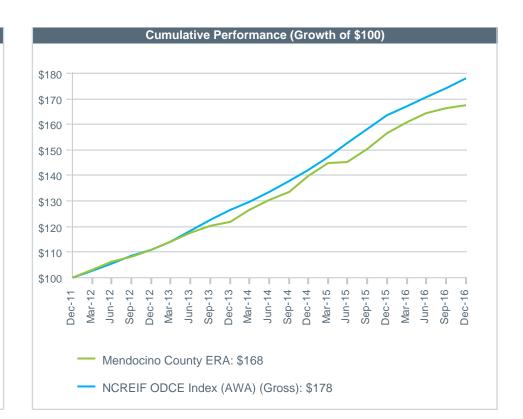




Total Return - Real Estate

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



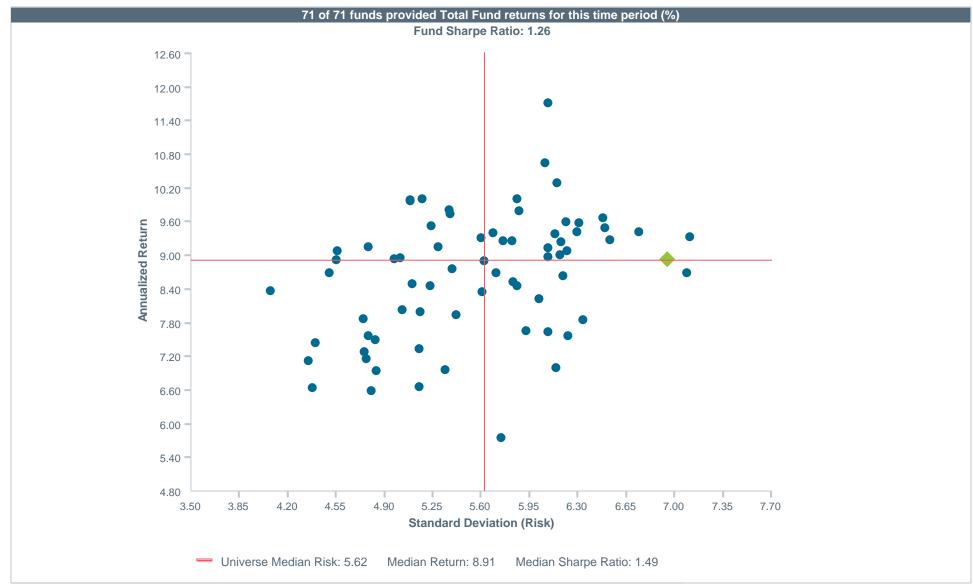


Annualized Returns (%)				
	1 Year	3 Years	5 Years	
Mendocino County ERA	7.02	11.17	10.89	
NCREIF ODCE Index (AWA) (Gross)	8.77	12.07	12.21	
Variance	-1.75	-0.90	-1.32	



Risk/Return Analysis

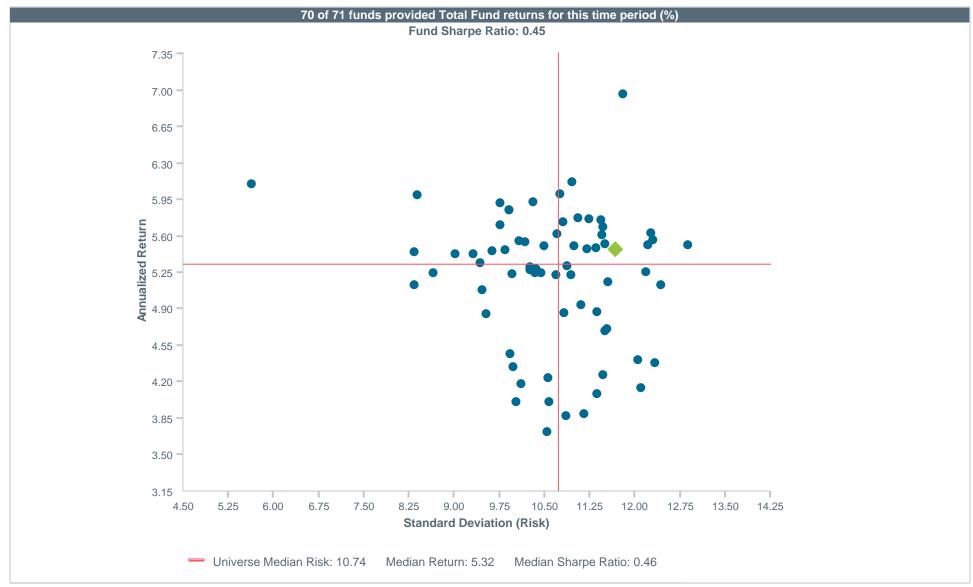
5 Year Annualized Total Fund Returns vs. Standard Deviation



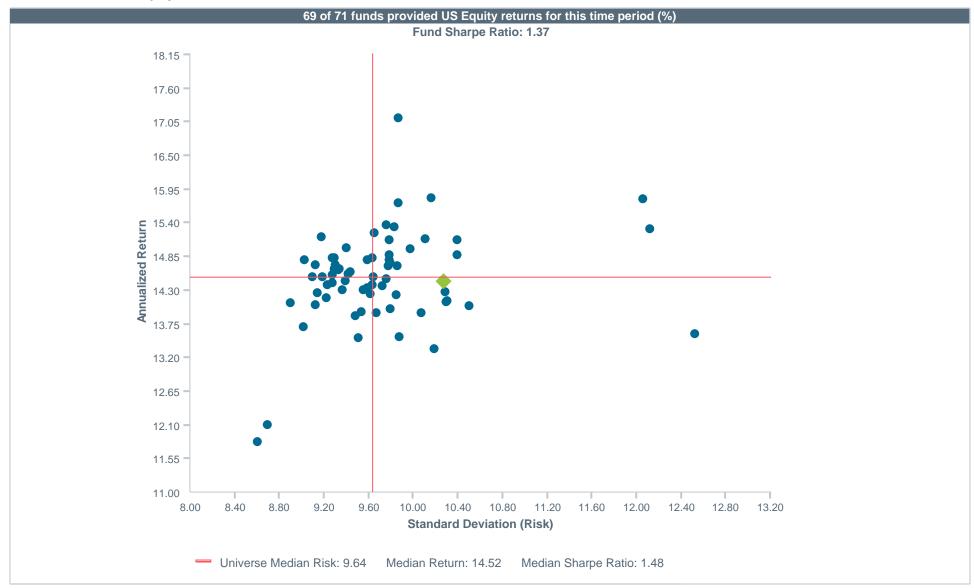


Risk/Return Analysis

10 Year Annualized Total Fund Returns vs. Standard Deviation





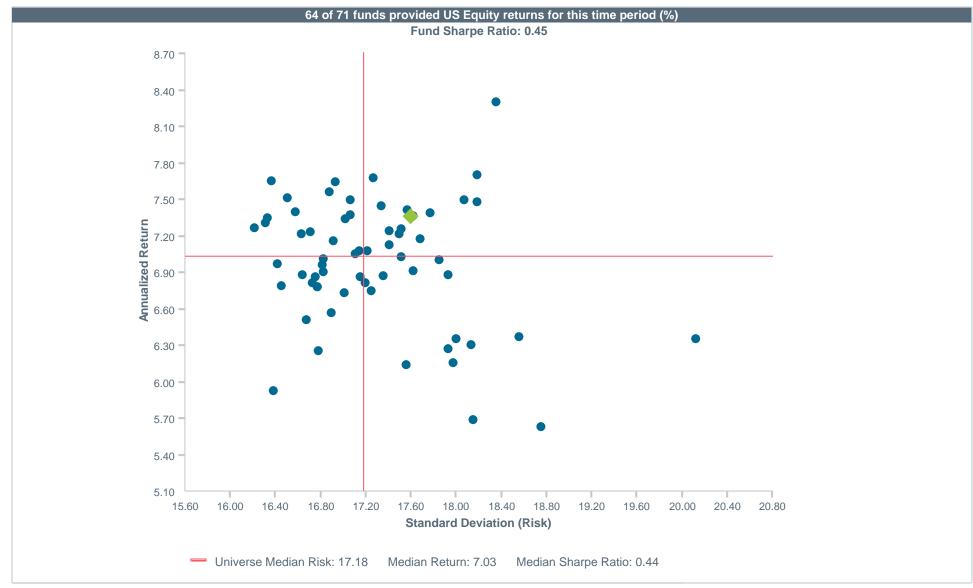


As of December 31, 2016



Risk/Return Analysis

10 Year Annualized US Equity Returns vs. Standard Deviation



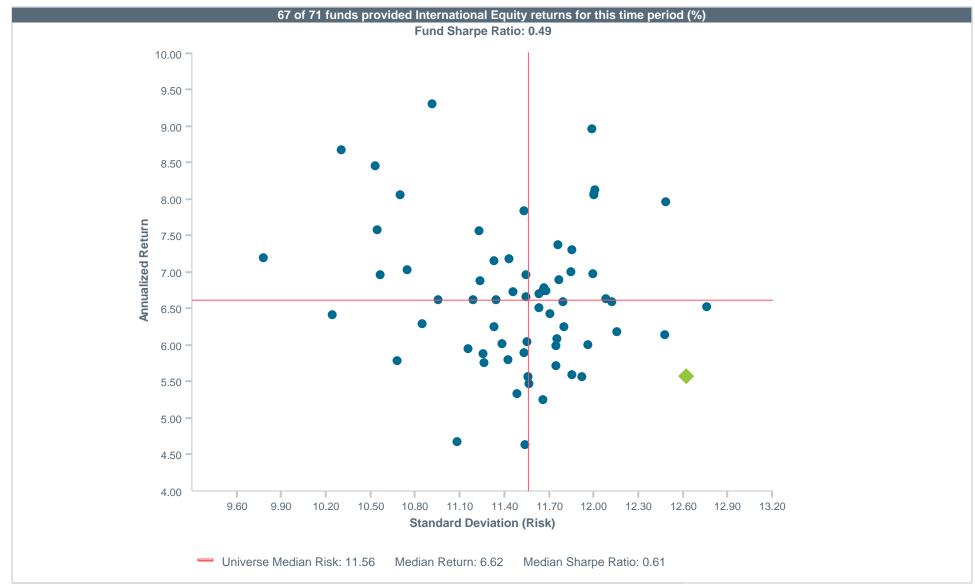
Funds with less history than the specified time period will not appear in the chart.



人 RVK

Risk/Return Analysis

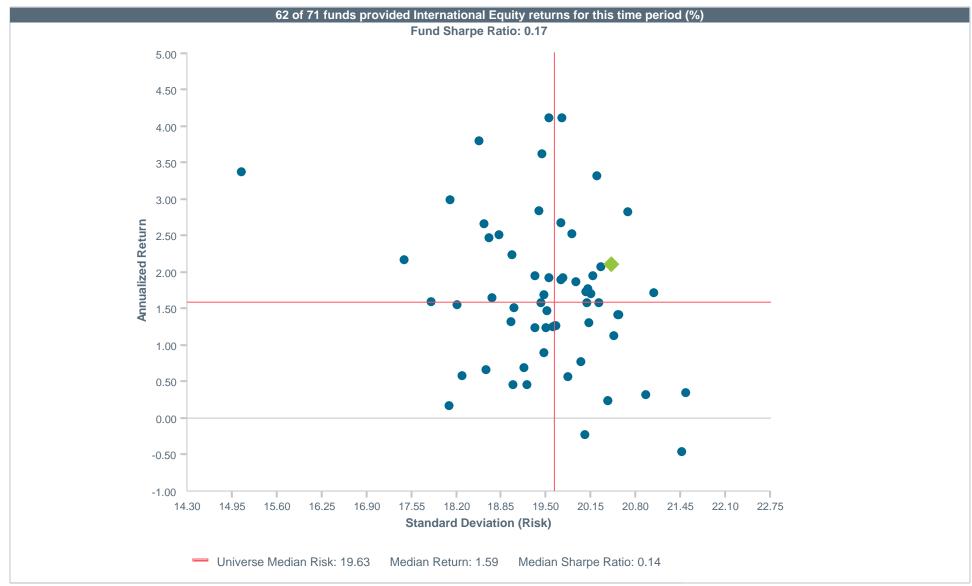
5 Year Annualized International Equity Returns vs. Standard Deviation





Risk/Return Analysis

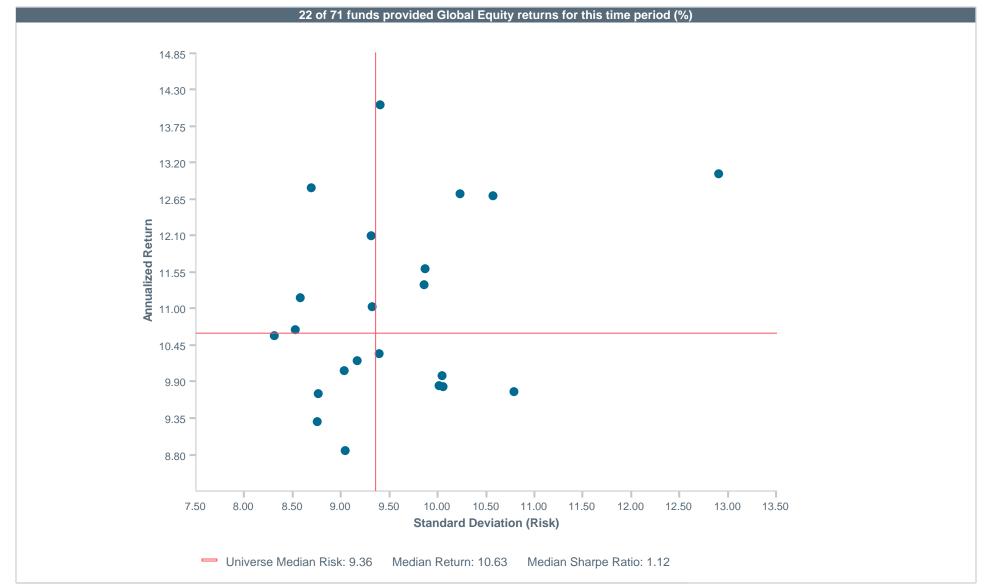
10 Year Annualized International Equity Returns vs. Standard Deviation





Risk/Return Analysis

5 Year Annualized Global Equity Returns vs. Standard Deviation

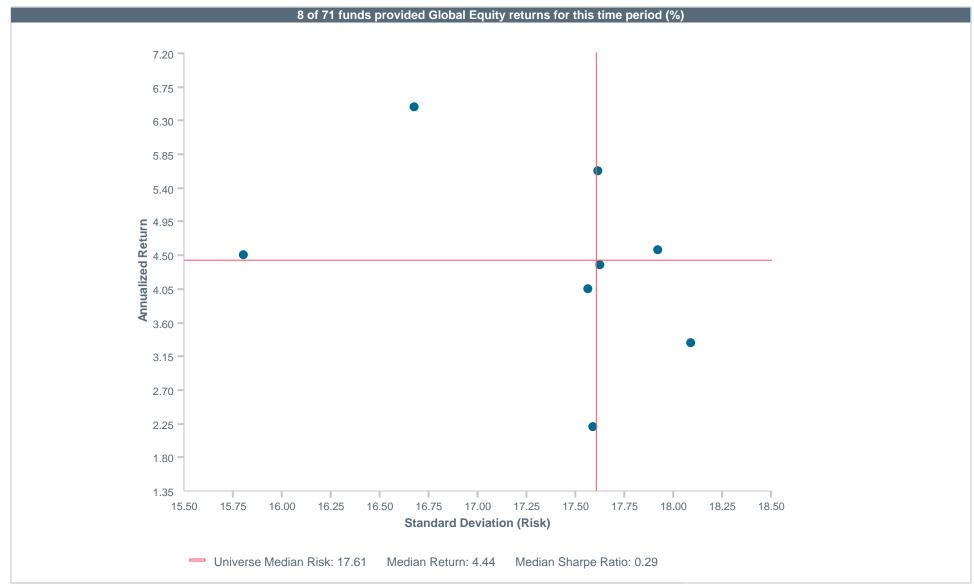




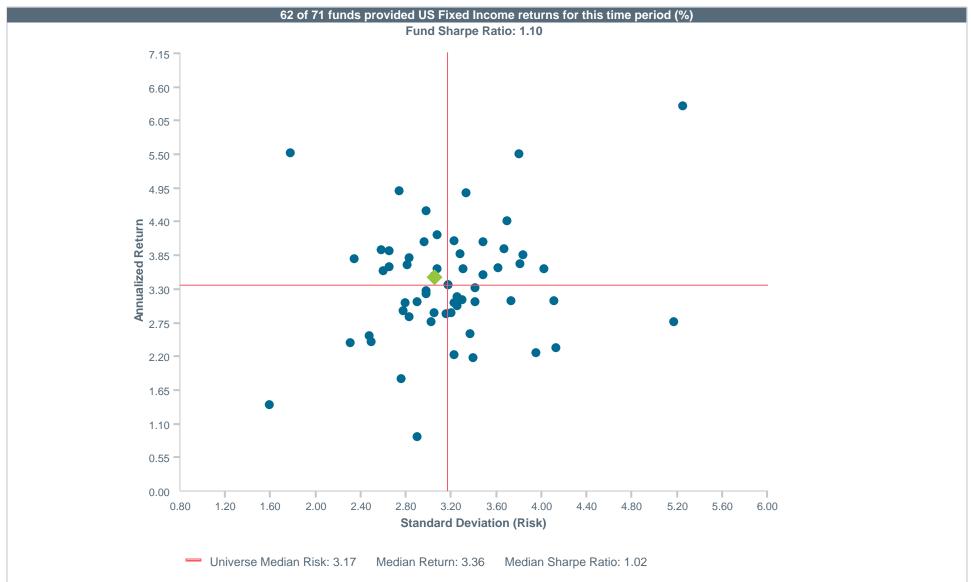


Risk/Return Analysis

10 Year Annualized Global Equity Returns vs. Standard Deviation



Risk/Return Analysis



Funds with less history than the specified time period will not appear in the chart.

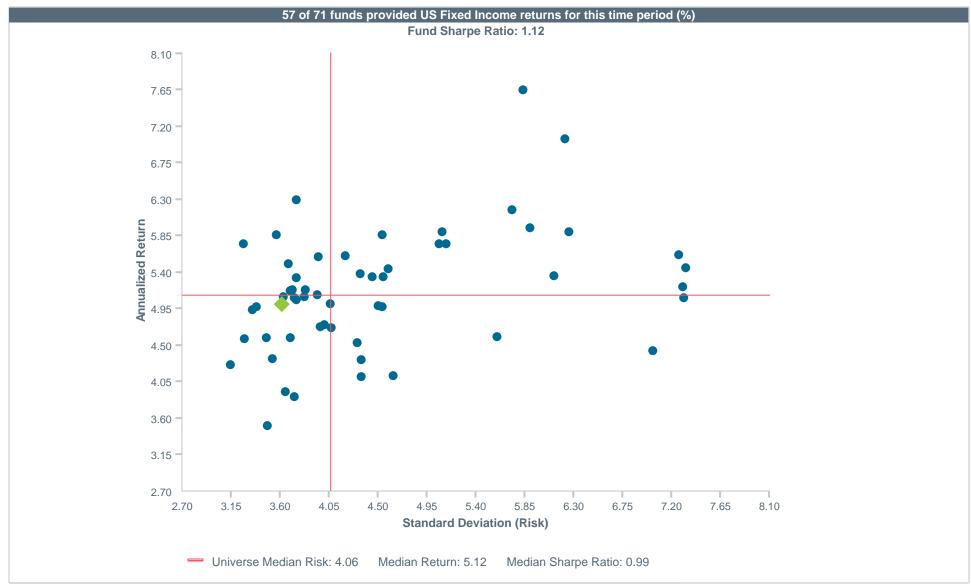


As of December 31, 2016



Risk/Return Analysis

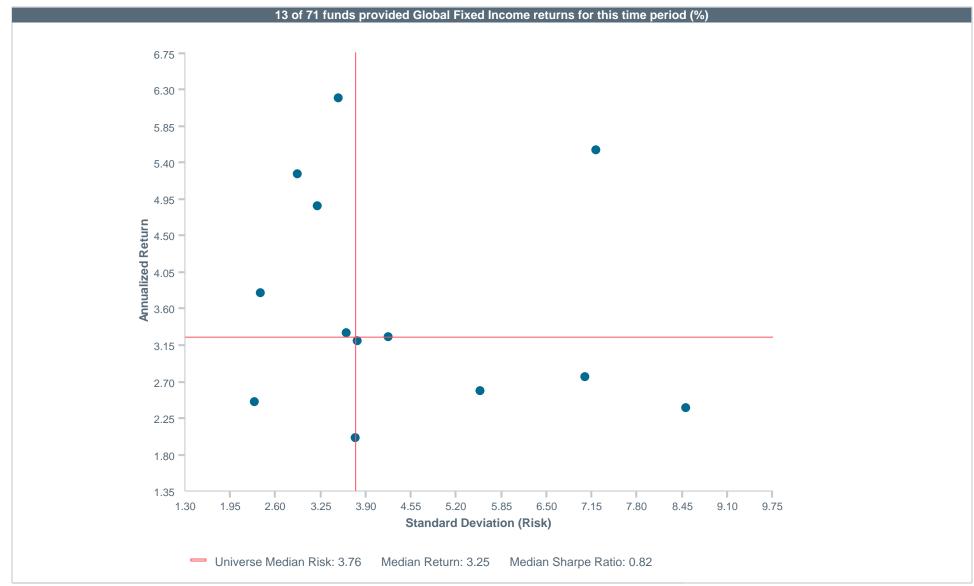
10 Year Annualized US Fixed Income Returns vs. Standard Deviation





Risk/Return Analysis

5 Year Annualized Global Fixed Income Returns vs. Standard Deviation

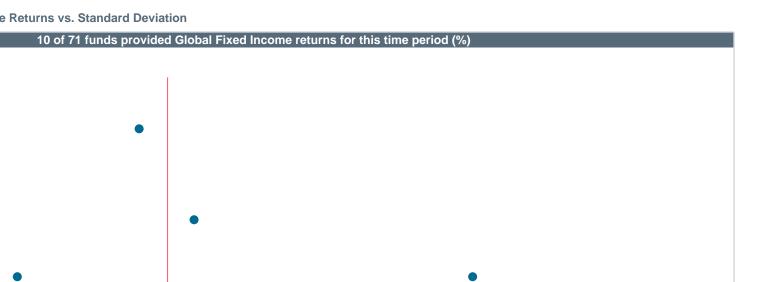


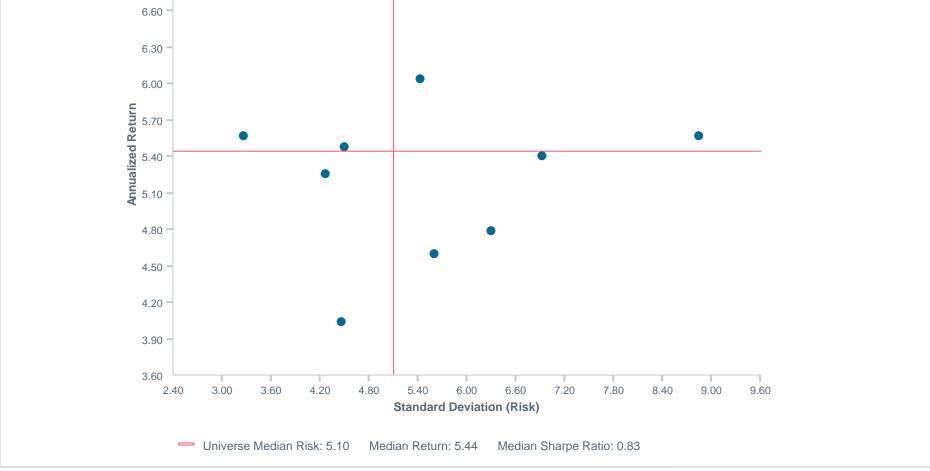
Funds with less history than the specified time period will not appear in the chart.

人 RVK

7.20

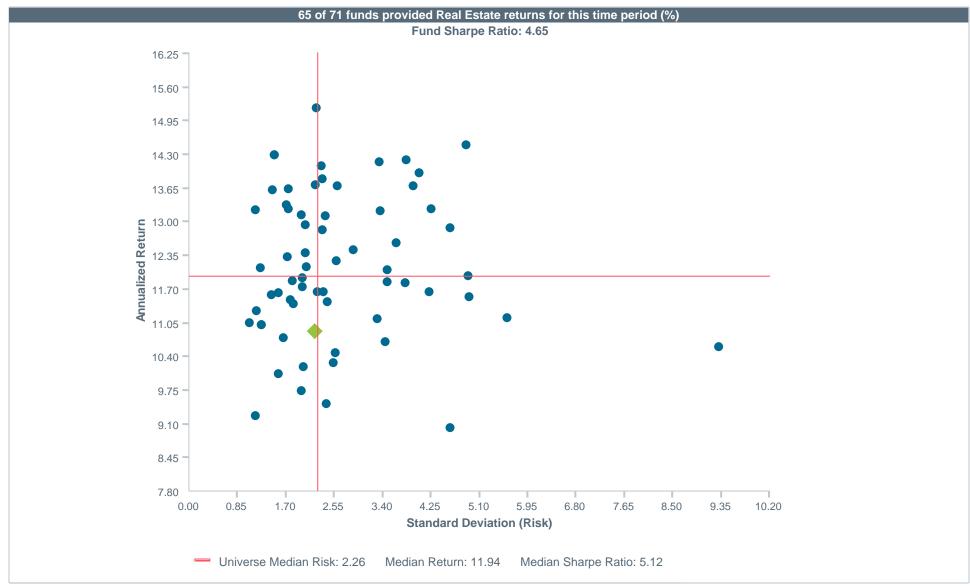
6.90







5 Year Annualized Real Estate Returns vs. Standard Deviation



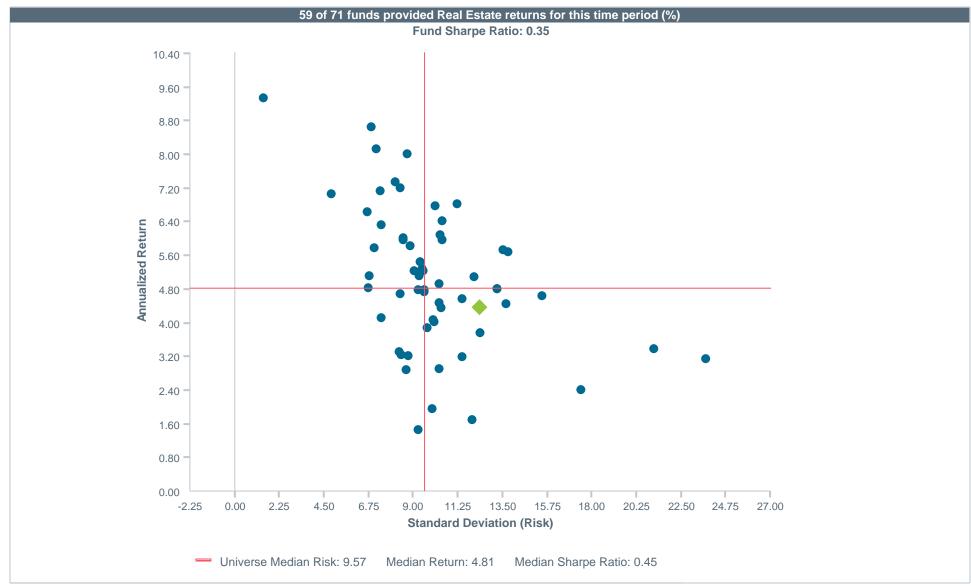
Funds with less history than the specified time period will not appear in the chart.



🙏 RVK

Risk/Return Analysis

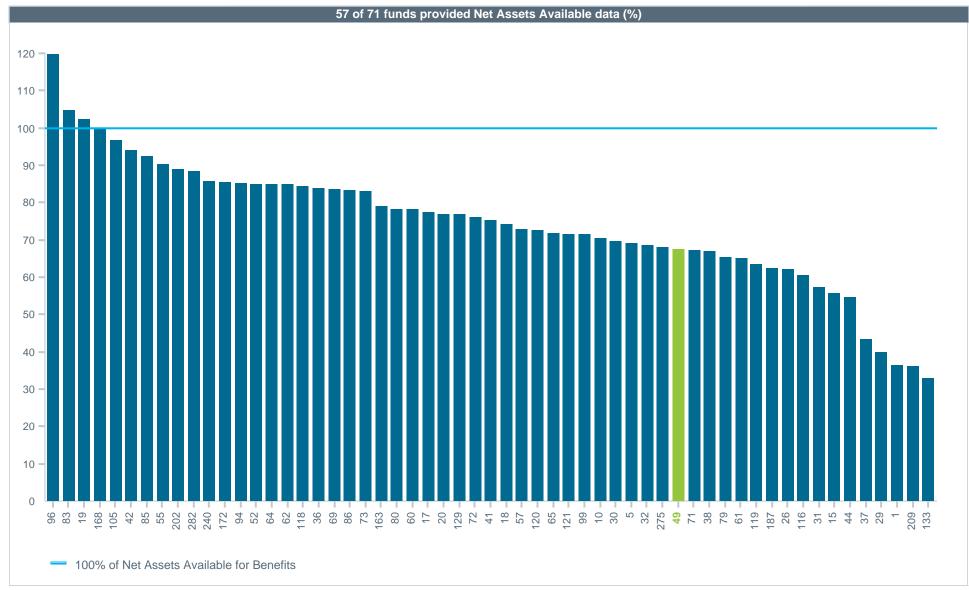
10 Year Annualized Real Estate Returns vs. Standard Deviation





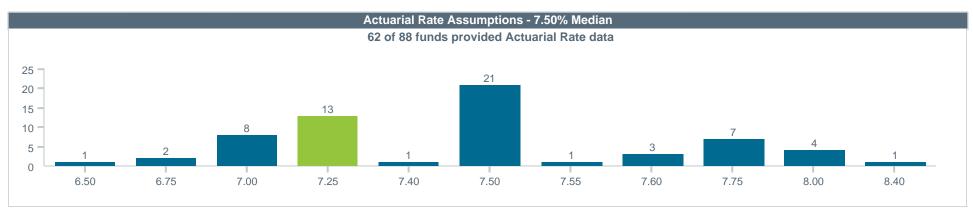
Net Assets Available For Benefits

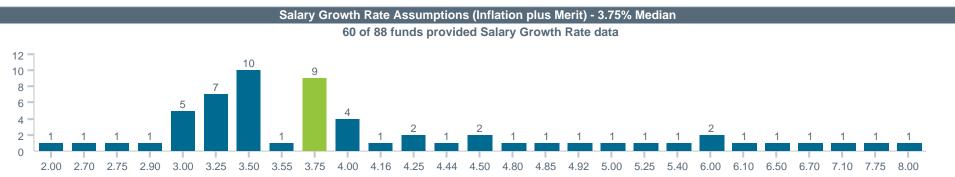
Expressed as a Percentage of the Pension Benefit Obligation

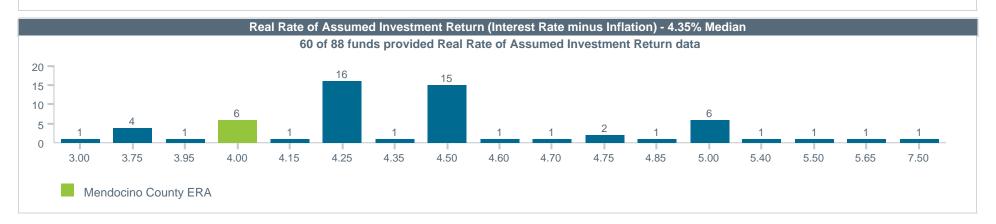




Funds that did not provide data will not appear in the chart.



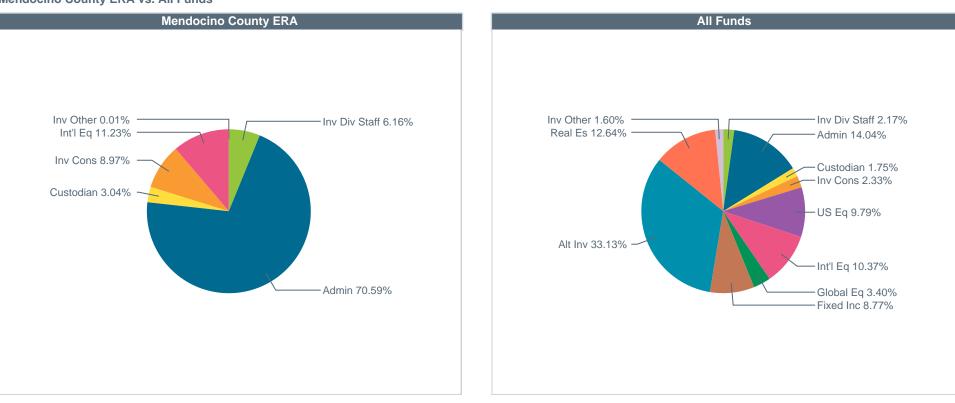


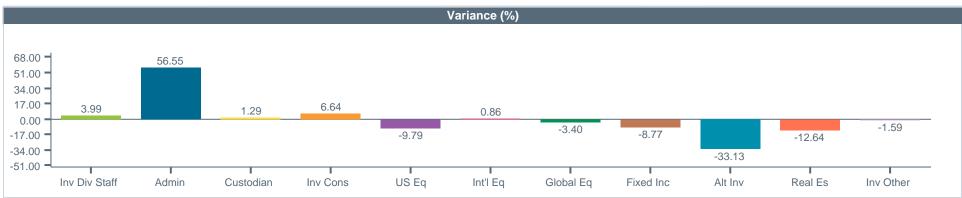




Total Administrative and Investment Fees

Mendocino County ERA vs. All Funds





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



Total Fund Fee Summary in Basis Points Mendocino County ERA vs. Average by Asset Range 55 of 71 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	2.24	1.12	0.00	0.81	0.91	0.98	2.11
Actuary	2.92	2.75	0.96	0.49	0.36	0.17	0.11
Legal	1.40	0.78	0.96	0.67	0.40	0.21	0.20
Consultant	0.00	0.18	0.24	0.25	0.53	0.07	0.15
Audit	0.86	0.61	0.52	0.20	0.12	0.07	0.06
Other Professional	0.00	0.10	0.47	0.34	0.26	0.35	0.83
General Administrative	20.50	13.22	10.17	7.71	6.45	2.84	2.88
Total Administrative Expenses	27.93	18.76	13.33	10.46	9.02	4.69	6.34

Investment Expenses	Mendocino County ERA	Under \$500 Million	\$500mm - \$1 Billion	\$1 - \$5 Billion	\$5 - \$10 Billion	\$10 - \$20 Billion	Over \$20 Billion
Custodial	1.11	1.71	2.64	1.33	0.57	0.52	0.31
Investment Consulting	3.26	2.49	2.18	2.00	0.74	0.66	0.50
US Equity	0.00	4.18	8.01	7.51	6.51	3.87	2.24
International Equity	4.09	2.04	6.03	7.25	6.10	5.16	3.80
Global Equity	0.00	5.69	2.70	1.60	2.10	1.94	1.12
Fixed Income	0.00	3.97	6.25	5.79	4.72	3.65	3.68
Real Estate	0.00	5.37	7.78	7.83	8.51	5.48	5.46
Other Investment Management	0.00	0.00	0.00	1.08	1.08	0.90	0.81
Total Investment Expenses (ex. Alt Inv)	8.46	25.46	35.59	34.40	30.32	22.19	17.93
Alternative Investments	0.00	7.87	7.15	16.93	20.20	16.03	22.73
Total Investment Expenses	8.46	33.33	42.74	51.33	50.52	38.22	40.66
Total Expenses	36.39	52.09	56.07	61.79	59.54	42.91	47.00

Expressed in basis points on total fund assets. Funds that did not provide fee data will not appear in the table.



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 71 participants in the 2016Q4 Public Fund Report, 53 participants provided a reply to the GIPS Compliance Survey. Of those participants, 6 answered "Yes, Currently Comply", 3 answered "Yes, Considering", and 44 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.

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



Miscellaneous Comments

- Performance shown is gross of fees, with the exception of the following:
 - Funds 31, 49, 350, and 351: 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 December 2015 and December 2016.
- Allocations shown reflect dedicated managers/mandates rather than actual exposure, with the exception of the following:
 - 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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