

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 world, as reported by *Pensions & Investments Special Report – Consultants*. We provide strategic investment advice to institutional investors with pension plans, defined contribution plans, endowments & foundations, insurance pools, and special purpose funds. RVK is the *only* firm to receive a *Coalition Greenwich Quality Leader* Award for a sixth consecutive year. (Coalition Greenwich issued the award on April 25, 2023 based on their February through November 2022 study. No direct or indirect compensation has been paid by RVK in connection with obtaining or using this award).

MISSION STATEMENT

To provide unbiased investment advice and long-term solutions to institutional investors, based on our cornerstones of trust, client service, and professional expertise.

STRATEGIC INVESTMENT ADVICE AND EXPLICIT NO-CONFLICTS-OF-INTEREST POLICY

RVK has built its investment consulting practice on the principles of integrity, investment expertise, 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 are in control of our business policy, providing firm stability for clients. We offer an extensive slate of consulting services and produce deliverables fully customized to meet clients' needs.

KEY TENETS OF OUR CULTURE



www.RVKInc.com

503-221-4200

Portland

Boise

Chica

New Yor



RVK BY THE NUMBERS

- 37 Years of Business
- 4 Offices—Portland, Boise, Chicago, New York
- \$1 Trillion Full-Retainer Assets Under Advisement
- 100+ 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
- ESG / Impact Investing Advice
- Client Education
- Special Projects

SPECIALTY CONSULTING SERVICES

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

- 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 Portland Boise Chicago New York

Participants As of June 30, 2023

Alameda County Employees' Retirement Association

Arlington County Employees' Retirement System

Chicago Teachers' Pension Fund

City of Fresno Employees Retirement Systems

City of Jacksonville Police and Fire Retirement Fund

City of Milwaukee Employes' Retirement System (Fund No. 105)

City of Plano Retirement Security Plan

Contra Costa County Employees' Retirement Association

Fire and Police Pension Association of Colorado

Gila River Indian Community Retirement Plan

Kansas City, Missouri Employees' Retirement System

Kern County Employees' Retirement Association

Los Angeles Fire and Police Pension System

Marin County Employees' Retirement Association

Merced County Employees' Retirement Association

Montana Teachers' Retirement System

Nevada Public Employees' Retirement System

North Carolina Retirement System

Oklahoma Firefighters Pension and Retirement System

Oklahoma Police Pension and Retirement System

Oklahoma Teachers' Retirement System

Orange County Employees' Retirement System

Police Retirement System of Kansas City, Missouri

Public School and Education ERS of Missouri

San Diego City Employees' Retirement System

San Diego Transit Corporation Employees Retirement

Santa Barbara County Employees' Retirement System

South Dakota Retirement System

State of New Jersey Pension Fund

Anchorage Police & Fire Retirement System

California State Teachers' Retirement System

City of Austin Employees' Retirement System

City of Fresno Fire & Police Retirement System

City of Jacksonville Retirement System

City of Plano Other Post-Employment Benefits Trust

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

Missour

Employees Retirement System of Texas

Fresno County Employees' Retirement Association

Iowa Public Employees' Retirement System

Kansas Public Employees' Retirement System

Los Angeles City Employees' Retirement System

Los Angeles Water & Power Employees Retirement Plan

Mendocino County Employees' Retirement Association

Montana Public Employees' Retirement System

Municipality of Anchorage Pre-Funding Program

New York State Common Retirement Fund

Ohio Public Employees' Retirement System

Oklahoma Law Enforcement Retirement System

Oklahoma Public Employees Retirement System

Oklahoma Wildlife Conservation Retirement System

Pennsylvania State Employees' Retirement System

Public Employees Retirement Association of New Mexico

San Bernardino County Employees' Retirement Association

San Diego County Employees Retirement Association

San Mateo County Employees' Retirement Association

Sonoma County Employees' Retirement Association

State of Michigan Retirement Systems



Participants As of June 30, 2023

Teachers' Retirement System of the State of Illinois Ventura County Employees' Retirement Association Virginia Retirement System Wyoming Retirement System State Teachers Retirement System of Ohio
The Navajo Nation Retirement Plan
Vermont Pension Investment Committee
West Virginia Investment Management Board

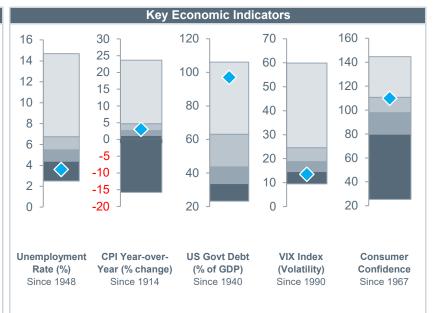


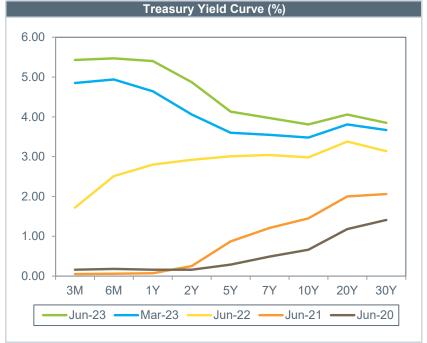
Capital Markets Review As of June 30, 2023

Second Quarter Economic Environment

During Q2, investors focused on the uncertainty of the future interest rate path and timing of further actions by the US Federal Reserve and other global central banks. At the start of 2023, the combination of rate hikes and quantitative tightening kept expectations for a near-term US recession embedded in many market forecasts. However, the continued strength of certain indicators, such as consumer spending and job growth, has altered the expected timing of a recession for some market participants. Mid-quarter forecasts and market outlooks were further complicated by the US debt ceiling debate, raising concerns regarding a potential default on the national debt. Ultimately, a deal was struck that suspended the ceiling until 2025. In the June data release, the Consumer Price Index (CPI) slowed to a 3.0% year-overyear rate, its lowest since March 2021. Recent job growth reports in the US provided mixed signals. US equity markets delivered strong results in Q2, primarily driven by the largest growth-oriented companies. US fixed income markets broadly posted negative returns in Q2, as the yield curve inverted further. The economic outlook in China, and its impact on global growth, continued to be a significant topic for investors. As concerns about China have grown, more investors are starting to view India and other south-east Asia countries as the drivers of growth in the region. The World Bank released its 2023 Global Economic Prospects report in June, forecasting subdued global GDP growth of 2.1% in 2023 and 2.4% in 2024, caused by tightening financial conditions and decreases in demand due to continued elevated inflation.

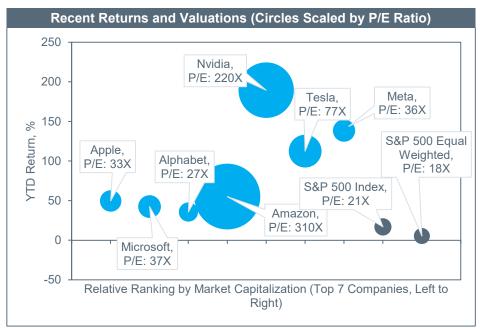
Economic Indicators	Jun-23	Mar-23	Jun-22	Jun-20	20 Yr
Federal Funds Rate (%)	5.08	4.83	1.58	0.08	1.39
Breakeven Infl 5 Yr (%)	2.17	2.47			
Breakeven Infl 10 Yr (%)	2.21	2.33			
CPI YoY (Headline) (%)	3.0 ▼	5.0	9.1	0.6	
Unemployment Rate (%)	3.6 ▲	3.5	3.6	11.0	
Real GDP YoY (%)	N/A —	1.8	1.8	-8.4	2.0
PMI - Manufacturing	46.0 ▼	46.3	53.0	52.4	53.6
USD Total Wtd Idx	119.89	119.48	121.05	120.49	103.57
WTI Crude Oil per Barrel (\$)	70.6 ▼	75.7		39.3	
Gold Spot per Oz (\$)	1,906 ▼	1,979	1,807	1,781	1,199
Market Performance (%)	QTD	CYTD	1 Yr	5 Yr	10 Yr
S&P 500 (Cap Wtd)	8.74	16.89	19.59	12.31	12.86
Russell 2000	5.21	8.09	12.31	4.21	8.26
Russell 2000 MSCI EAFE (Net)	5.21 2.95		12.31 18.77		
MSCI EAFE (Net)	2.95	11.67	18.77	4.39	5.41
MSCI EAFE (Net) MSCI EAFE SC (Net)	2.95 0.58	11.67 5.53 4.89	18.77 10.18	4.39 1.30	5.41 6.19
MSCI EAFE (Net) MSCI EAFE SC (Net) MSCI Emg Mkts (Net)	2.95 0.58 0.90	11.67 5.53 4.89	18.77 10.18 1.75	4.39 1.30 0.93	5.41 6.19 2.95
MSCI EAFE (Net) MSCI EAFE SC (Net) MSCI Emg Mkts (Net) Bloomberg US Agg Bond	2.95 0.58 0.90 -0.84	11.67 5.53 4.89 2.09	18.77 10.18 1.75 -0.94	4.39 1.30 0.93 0.77	5.41 6.19 2.95 1.52
MSCI EAFE (Net) MSCI EAFE SC (Net) MSCI Emg Mkts (Net) Bloomberg US Agg Bond ICE BofAML 3 Mo US T-Bill	2.95 0.58 0.90 -0.84 1.17	11.67 5.53 4.89 2.09 2.25	18.77 10.18 1.75 -0.94 3.59 -9.98	4.39 1.30 0.93 0.77 1.55	5.41 6.19 2.95 1.52 0.98
MSCI EAFE (Net) MSCI EAFE SC (Net) MSCI Emg Mkts (Net) Bloomberg US Agg Bond ICE BofAML 3 Mo US T-Bill NCREIF ODCE (Gross)	2.95 0.58 0.90 -0.84 1.17 -2.68	11.67 5.53 4.89 2.09 2.25 -5.77 5.37	18.77 10.18 1.75 -0.94 3.59 -9.98	4.39 1.30 0.93 0.77 1.55 6.50	5.41 6.19 2.95 1.52 0.98 8.74

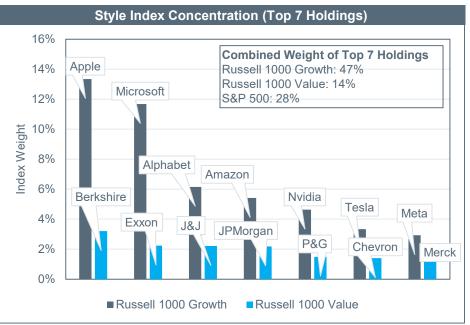


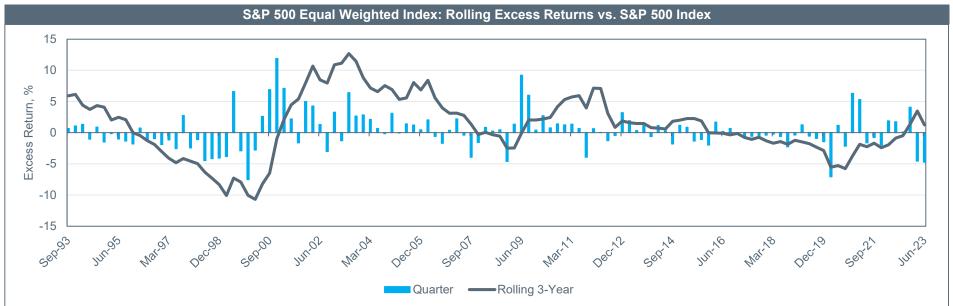




US Stock Market Concentration As of June 30, 2023





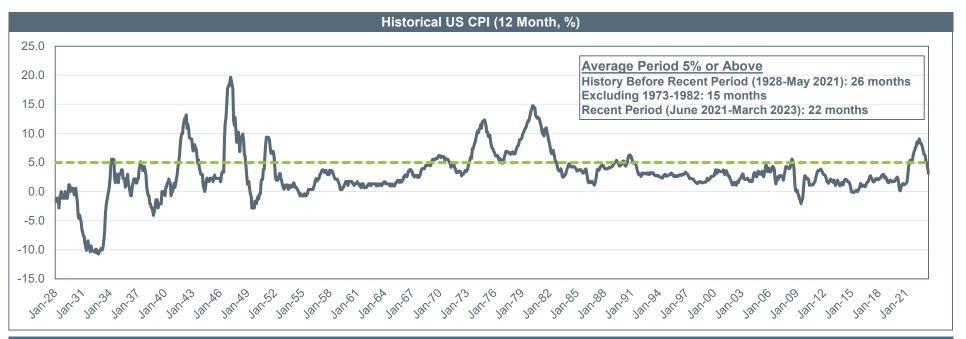


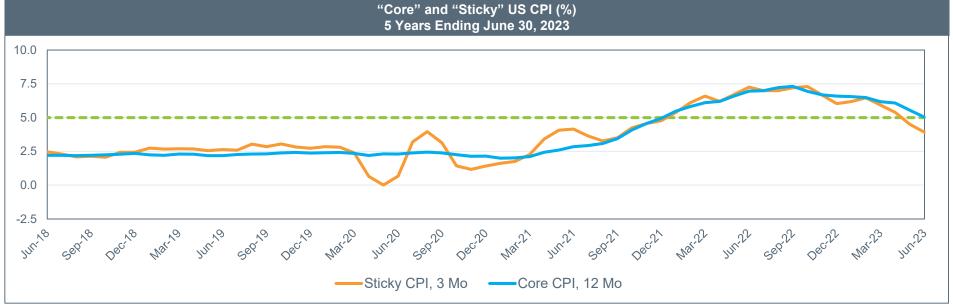
Sources: Morningstar, Bloomberg, FTSE Russell, and Standard & Poors.



Current Inflation in Context

As of June 30, 2023





Sources: US Bureau of Labor Statistics, Federal Reserve Bank of Cleveland, and Federal Reserve Bank of Atlanta.

Core CPI is represented by the Revised FRB Cleveland Trimmed Mean, 12-month. Sticky CPI is represented by the FRB Atlanta Sticky-Price Index, 3-month.



US Equity Review
As of June 30, 2023

Second Quarter Review

Broad Market

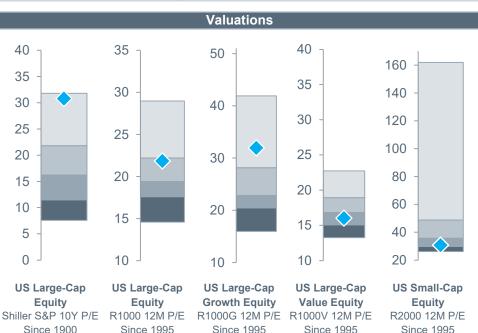
US equity markets continued their recovery in Q2 primarily driven by a handful of mega-cap growth stocks. While all sectors, excluding energy and utilities, in the Russell 1000 Index were positive, roughly half of its returns came from the information technology sector driven by optimism around advancements in artificial intelligence (AI) and related technology. Further, roughly two-thirds of the Russell 1000 Q2 returns can be attributed to the 10 largest companies in the index.

Market Cap

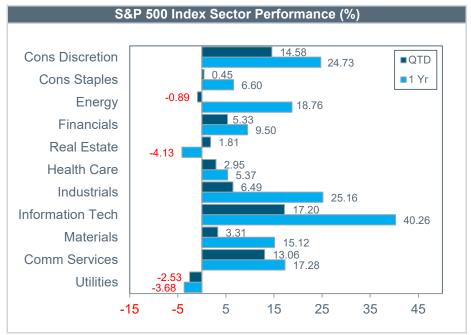
Active large-cap managers continued to struggle to generate excess returns as index concentration rises. Mid-cap managers generally performed well in Q2 while a majority of active small-cap managers failed to outpace their respective benchmarks.

Style and Sector

Growth outperformed value by a significant margin across market caps for the second consecutive quarter. The return spread of the Russell 1000 and Russell 2000 Growth and Value Indexes were 8.7% and 3.9%, respectively. Additionally, the MSCI USA Cyclical Index continued to outperform the MSCI USA Defensive Index by 27.6% year-to-date, indicating improving economic sentiment from investors despite continued near-term uncertainty around inflation and interest rates.







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 June 30, 2023

Second Quarter Review

Developed Markets

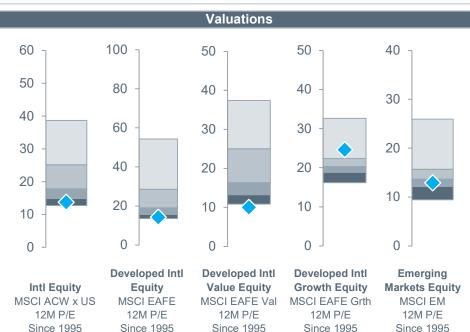
Following two consecutive quarters of outperformance, developed equity underperformed the US in Q2, with the MSCI EAFE returning 3.0%. Value stocks outperformed growth stocks, while developed large-cap stocks outperformed small-cap stocks. While most active large-cap managers outperformed the MSCI EAFE Index, small-cap managers broadly underperformed the MSCI EAFE Small Cap Index.

Emerging Markets

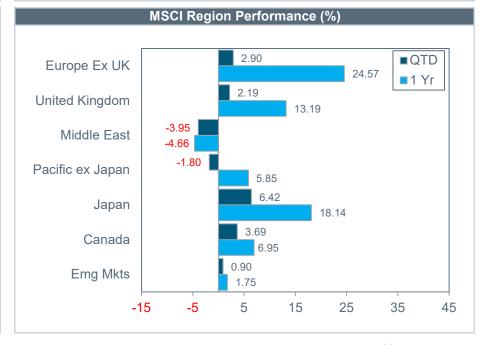
Emerging markets lagged developed markets in Q2, with the MSCI Emerging Market Index returning 0.9% as value outperformed growth and small-cap stocks outperformed large-cap stocks. The majority of active emerging market managers outperformed in Q2.

Market Cap & Style

While inflation in the US began to show signs of abatement, inflation continued to climb in Europe. Persistent above-target headline inflation combined with a tight labor market led the ECB to raise interest rates to 3.5%, its highest level in over 20 years.









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

As of June 30, 2023

Second Quarter Review

Broad Market

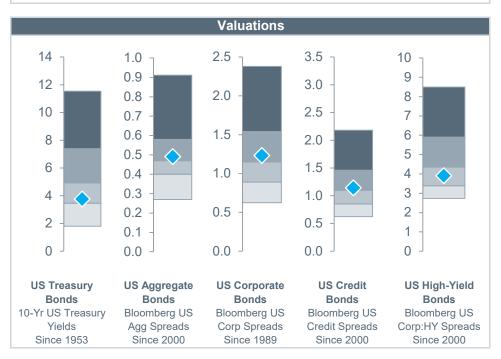
In Q2, the Fed maintained its interest rate range, breaking the streak of consecutive rate hikes. However, Fed Chair Powell noted that future rate hikes could still occur based on economic conditions. Treasury yields rose across maturities, with the 10-year yield reaching 3.85%. The yield curve inversion between the 2-year and 10-year yields deepened in Q2, nearing the peak observed in March prior to the bank failures. Against this backdrop, the Bloomberg US Aggregate Bond Index posted a return of -0.84%.

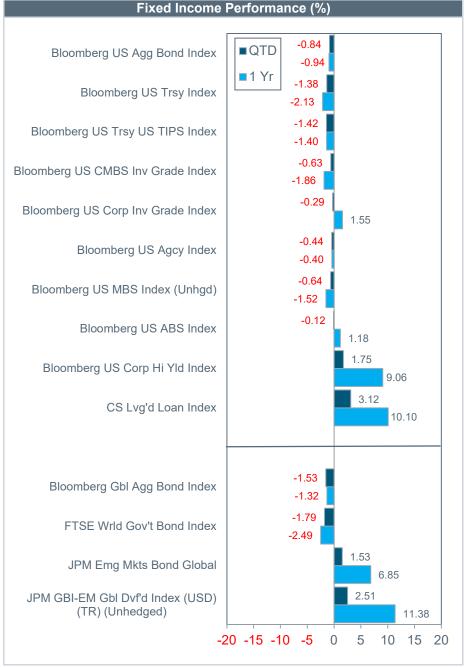
Credit Market

One trend observed in Q1 persisted, with lower-rated bonds delivering better performance. The Bloomberg US Corporate Investment Grade Index returned -0.29% in Q2, lagging the Bloomberg US Corporate High Yield Index return of 1.75%

Emerging Market Debt

Emerging markets debt provided positive returns in Q2, with the JPMorgan EMBI Global Diversified Index returning 2.19%. Yields on emerging market sovereign and corporate bonds decreased, while high-yield issuers outperformed investment-grade issuers due to a risk-on environment. Local emerging markets outperformed hard currency, with the JPMorgan GBIEM Global Diversified Index returning 2.51%.







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



Alternatives Review As of June 30, 2023

Second Quarter Review - Absolute Return

General Market - Hedge Funds

In Q2, hedge funds delivered a second straight quarter of positive results. The HFRI Fund-Weighted Composite Index reported a net return of 2.2%, highlighted by mixed results from commodity and macro-oriented managers amidst the Fed's slowing interest rate trajectory and cooling inflation data. While the dispersion of return among strategies has been wide in Q2, market-neutral strategies focusing on relative value, dispersion, and volatility trading have been able to benefit from turbulence caused by the regional banking crisis fallout. However, most have struggled to generate short alpha in technology-oriented indsutries that have been broadly rallying in recent months.

General Market - Global Tactical Asset Allocation (GTAA)

Global Tactical Asset Allocation (GTAA) strategies that RVK follows closely generally posted positive returns during Q2 with moderate dispersion. However, a US-centric blend of 60% equity and 40% fixed income outperformed most diversified active managers due to larger allocations to mega-cap equity holdings.

HFRI Hedge Fund Performance (%) 1.43 HFRI FOF ■ QTD 3.58 1.29 Conv Arbitrage ■1 Yr 2.87 Equity Hedge 7.39 1.10 Mkt Neutral Eq 3.39 1.25 Distressed 1.90 Macro -0.17 1.21 Relative Value 4.08 1.28 **Event Driven** 5.49 -1.05 Merger Arb 1.85 1.55 Credit Arb 7.79 5 -5 0 10

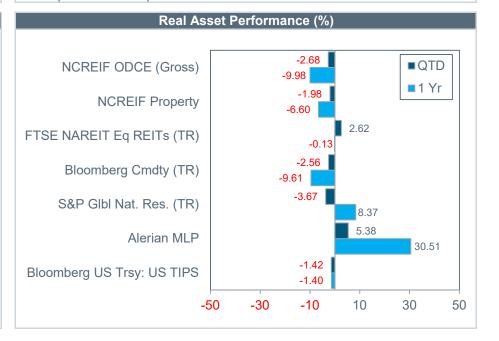
Second Quarter Review - Real Assets

General Market - Diversified Inflation Strategies (DIS)

Diversified Inflation Strategy (DIS) managers tracked closely by RVK broadly underperformed a US-centric blend of 60% equity and 40% fixed income during the quarter. Managers with larger exposures to commodities and TIPS lagged peers most significantly while those with larger REIT and Global Listed Infrastructure allocations tended to outperfrom peers.

General Market - Real Estate

Core private real estate generated a -2.7% in Q2 (on a preliminary and gross-of-fee basis), as reported by the NFI-ODCE Index, with the total return comprising 0.9% from income and -3.6% from price appreciation. Income returns continue to trend at the lower end of historical levels while price appreciation continues to remain negative. Investors of publicly traded real estate significantly outperformed their private market counterparts by a meaningful margin, with publicly traded real estate delivering a Q2 total return of 1.6%, as measured by FTSE NAREIT All REIT Index. In Q2, private real estate markets continued to experience similar trends as the prior three quarters. Significant headwinds persisted as a direct result of disruptions in the capital markets from 2022.





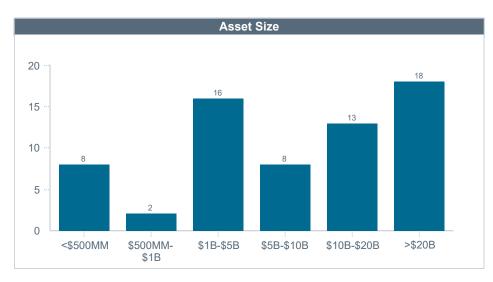
Annual Asset Class Performance As of June 30, 2023

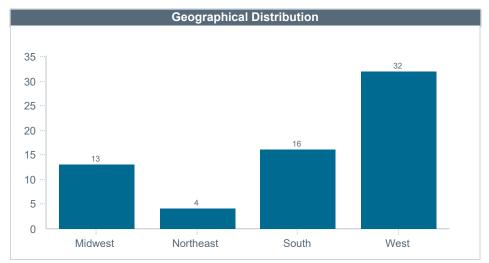
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	YTD
Best	78.51	27.94	22.49	20.00	38.82	30.14	15.02	21.31	37.28	8.35	31.49	19.96	43.24	16.09	16.89
1	58.21	26.85	15.99	18.23	32.39	19.31	9.59	17.13	33.01	1.87	26.00	18.40	28.71	7.47	11.67
	46.78	22.04	13.56	18.06	29.30	13.69	3.20	11.96	25.03	0.01	25.53	18.31	27.11	1.46	8.09
	31.78	18.88	8.29	17.32	22.78	12.50	1.38	11.77	21.83	-1.26	24.96	16.12	22.17	-5.31	5.53
	28.01	16.83	7.84	16.35	13.94	5.97	0.55	11.19	14.65	-2.08	22.01	12.34	14.82	-11.19	5.38
	27.17	16.36	4.98	16.00	8.96	4.89	0.05	8.77	10.71	-4.02	19.59	10.99	11.26	-11.85	5.37
	26.46	15.12	2.11	15.81	7.44	3.64	-0.27	8.52	7.77	-4.38	18.42	10.88	10.10	-13.01	4.89
	18.91	15.06	0.10	10.94	2.47	3.37	-0.81	6.67	7.62	-4.62	14.32	7.82	6.17	-14.45	4.39
	11.47	10.16	-4.18	8.78	0.07	2.45	-1.44	4.68	7.50	-4.68	8.72	7.51	5.96	-18.11	2.27
	11.41	7.75	-5.72	6.98	-2.02	0.04	-3.30	2.65	5.23	-11.01	8.43	7.11	5.28	-20.09	2.25
	5.93	6.54	-12.14	4.79	-2.60	-2.19	-4.41	2.18	3.54	-11.25	8.39	1.19	0.05	-20.44	2.09
	1.92	6.31	-13.32	4.21	-8.61	-4.90	-4.47	1.00	3.01	-13.79	7.69	0.67	-1.55	-21.39	1.87
	0.21	5.70	-15.94	0.11	-8.83	-4.95	-14.92	0.51	1.70	-14.57	5.34	-3.12	-2.52	-24.37	-5.77
Worst	-29.76	0.13	-18.42	-1.06	-9.52	-17.01	-24.66	0.33	0.86	-17.89	2.28	-8.00	-2.54	-27.09	-7.79
									DI.				DI ECE		105
S&P 500 US Larg Cap		nall (Net)		(Net) - (N	ISCI EM let) - Int'I mg Mkts	Bloombrg US Agg Bond - Fl	Bloombrg US Corp H Yield - Fl	Bloombr i US Trsy U TIPS - F	S Credit I	ov ODO	CE NARI	EIT Eq C	dov		ICE BofAML 3 Mo T-Bill - Cash Equiv

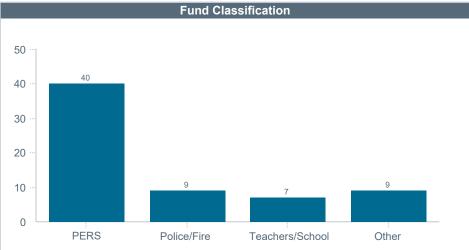
NCREIF ODCE (Gross) performance is reported quarterly; performance is shown N/A in interim-quarter months.

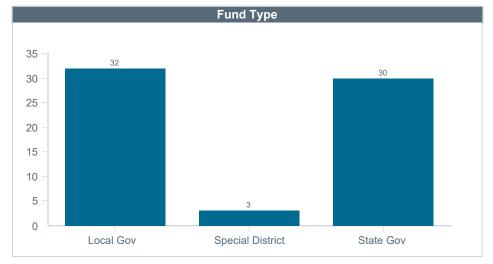


Universe Characteristics As of June 30, 2023



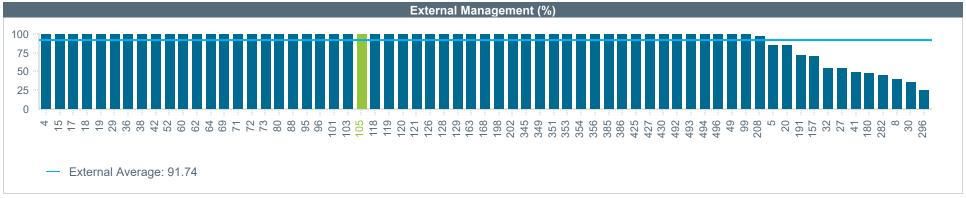


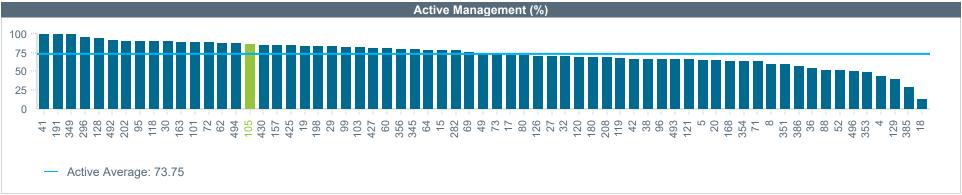


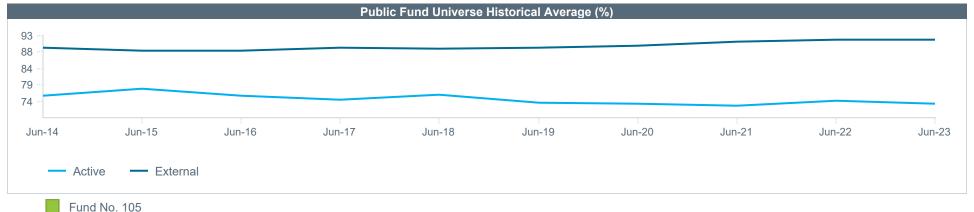


Universe: 65 funds











Portfolio Management Statistics
As of June 30, 2023

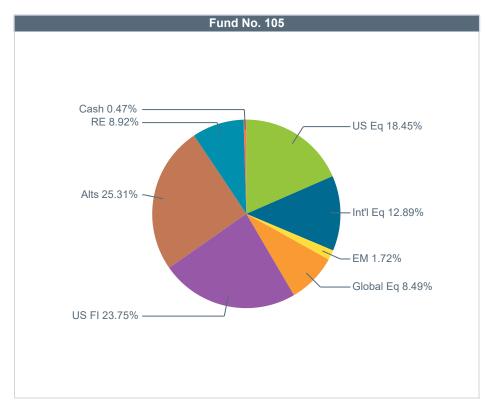
	Actively Managed (%)	Passively Managed (%)	Externally Managed (%)	Internally Managed (%)
Asset Range				
Over \$20B	70.95	29.05	76.13	23.87
\$10B-\$20B	72.80	27.20	94.05	5.95
\$5B-\$10B	69.36	30.64	98.15	1.85
\$1B-\$5B	77.36	22.64	99.06	0.94
\$500MM-\$1B	82.29	17.71	99.95	0.05
Under \$500MM	76.63	23.37	100.00	0.00
Fund No. 105	87.22	12.78	100.00	0.00

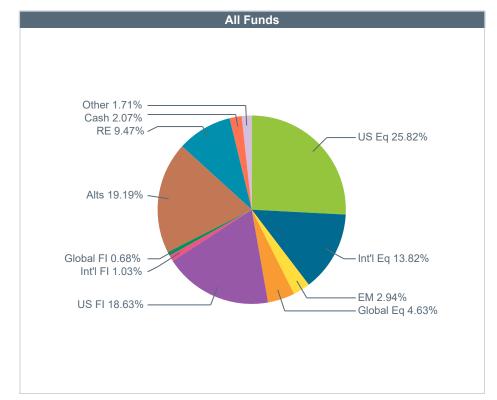
Percentages shown for asset ranges are representative of the average allocation.

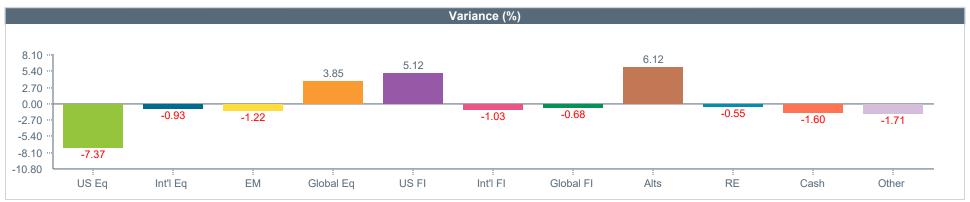
	Active Ma	nagement	External Ma	anagement
Portfolio (%)	Public Fund Universe	Fund No. 105	Public Fund Universe	Fund No. 105
90 to 100	10	0	53	1
50 to 89	50	1	6	0
10 to 49	5	0	6	0
Less than 10	0	0	0	0
Total Funds Reporting	65	1	65	1



Fund No. 105 vs. Average of All Funds



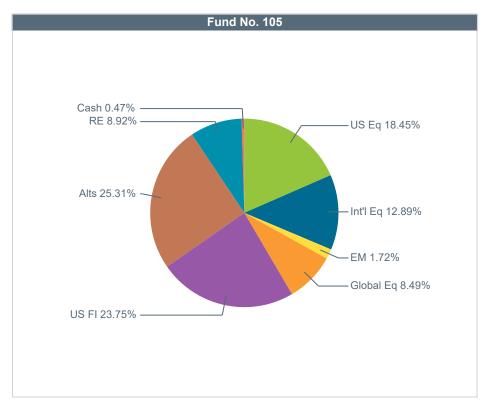


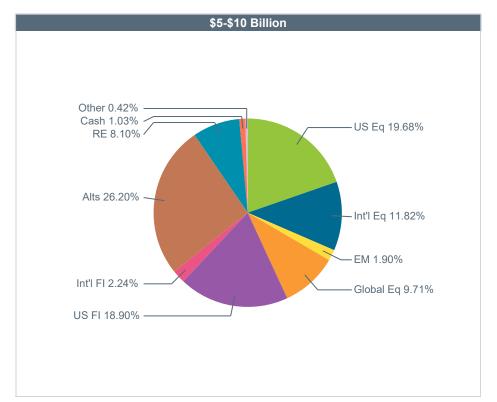


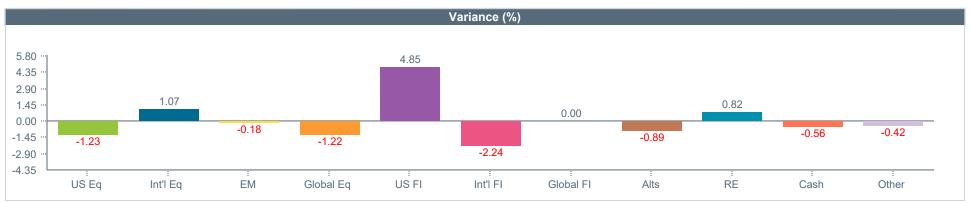




Fund No. 105 vs. Average of Similar Size Funds

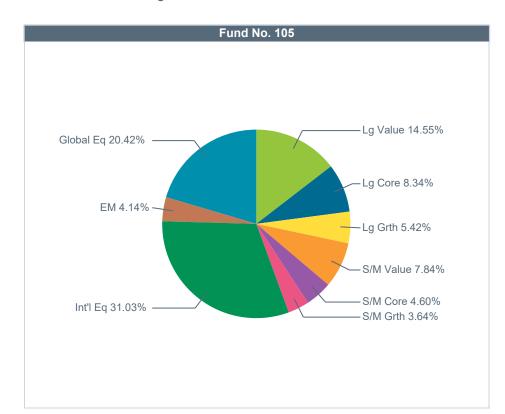


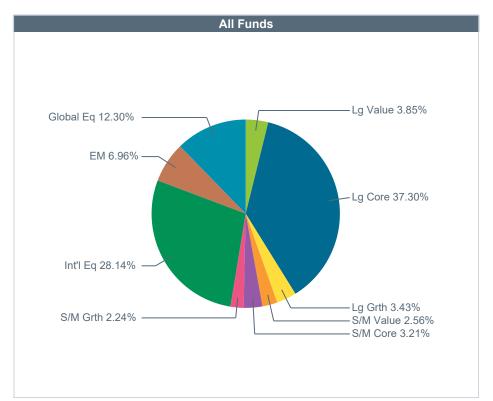


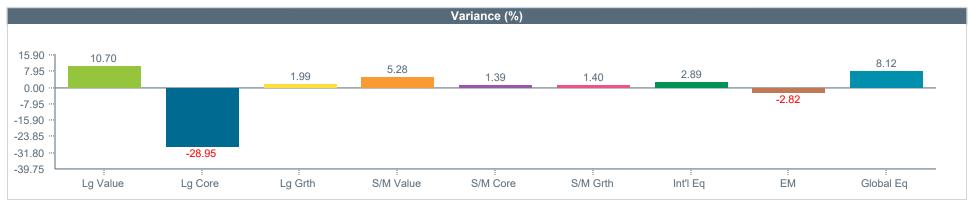




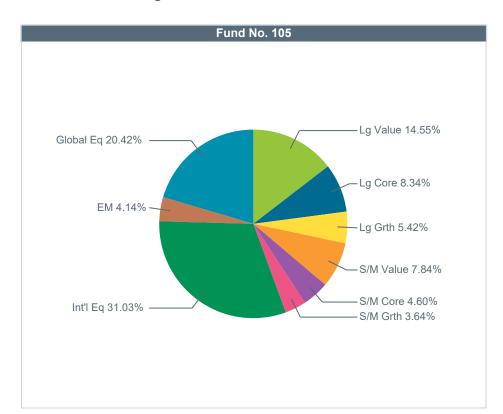


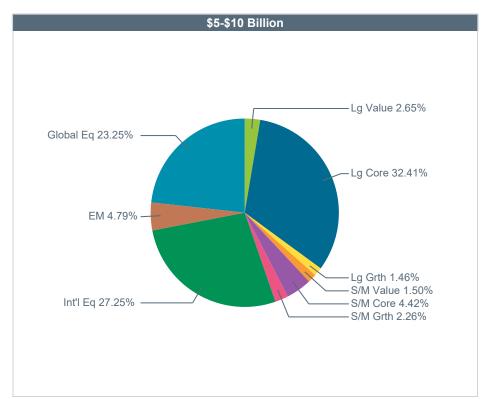


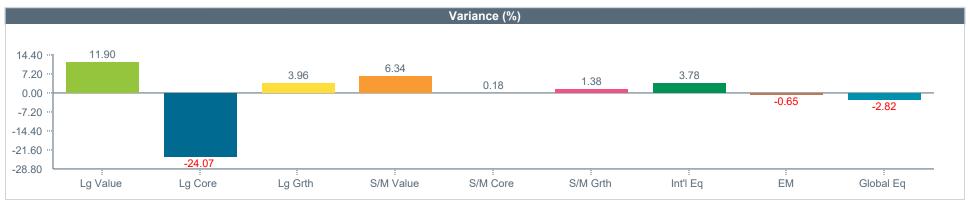




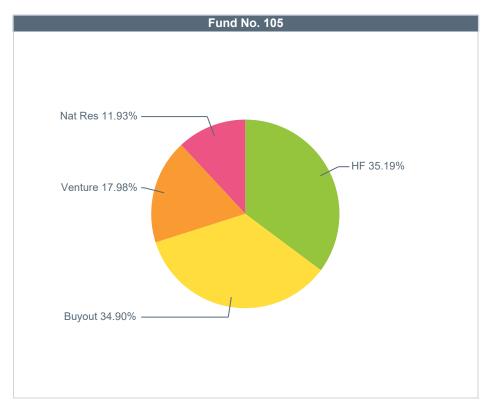


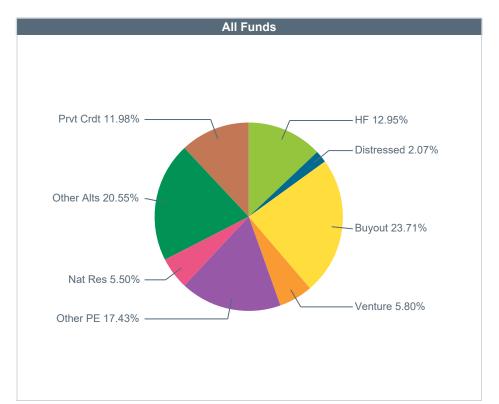


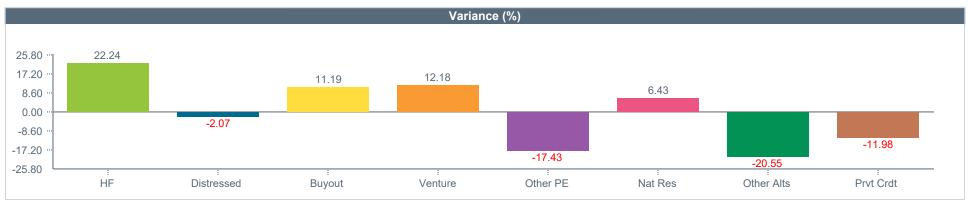




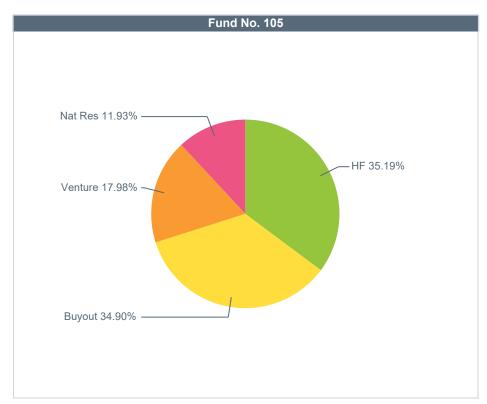


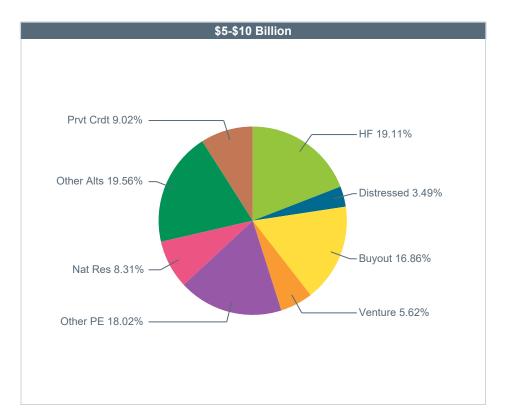


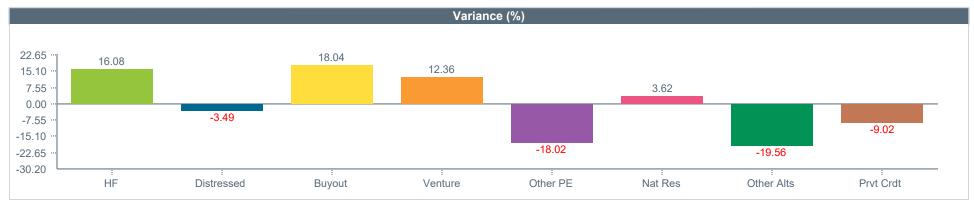






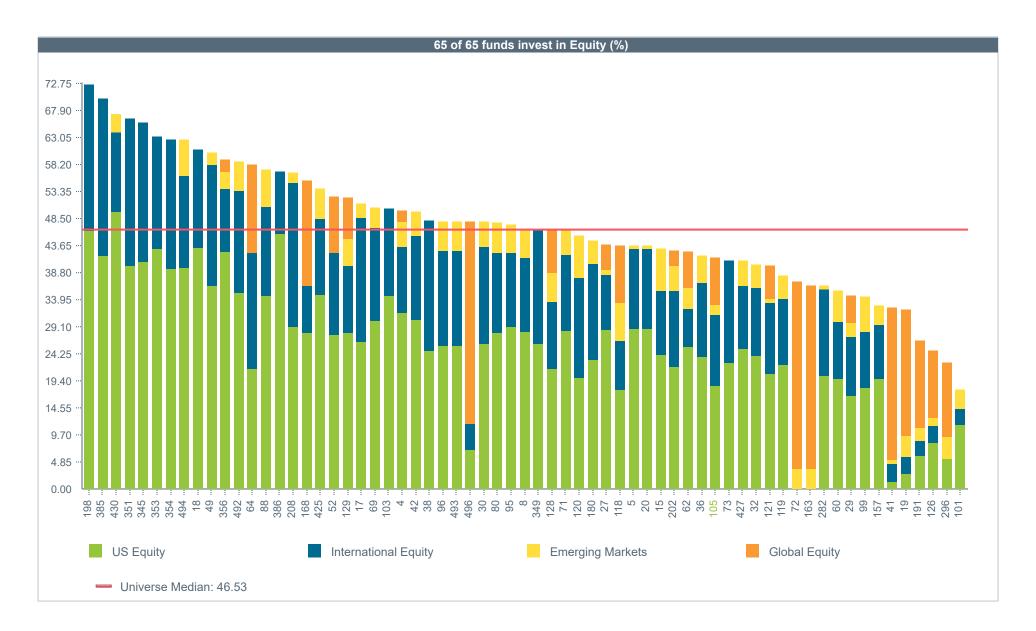






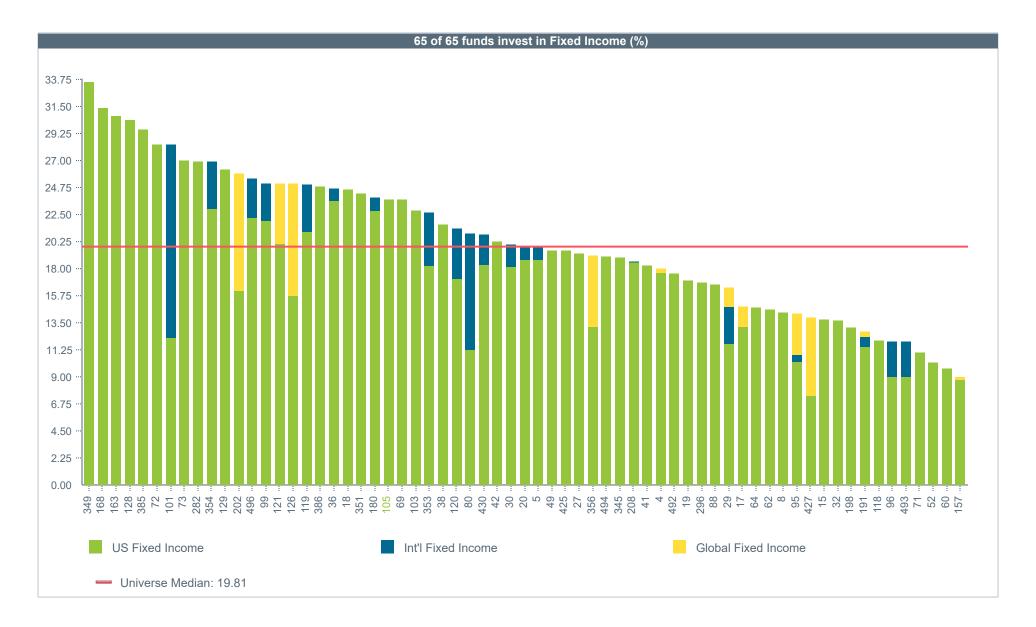


Equity Style Allocation As of June 30, 2023



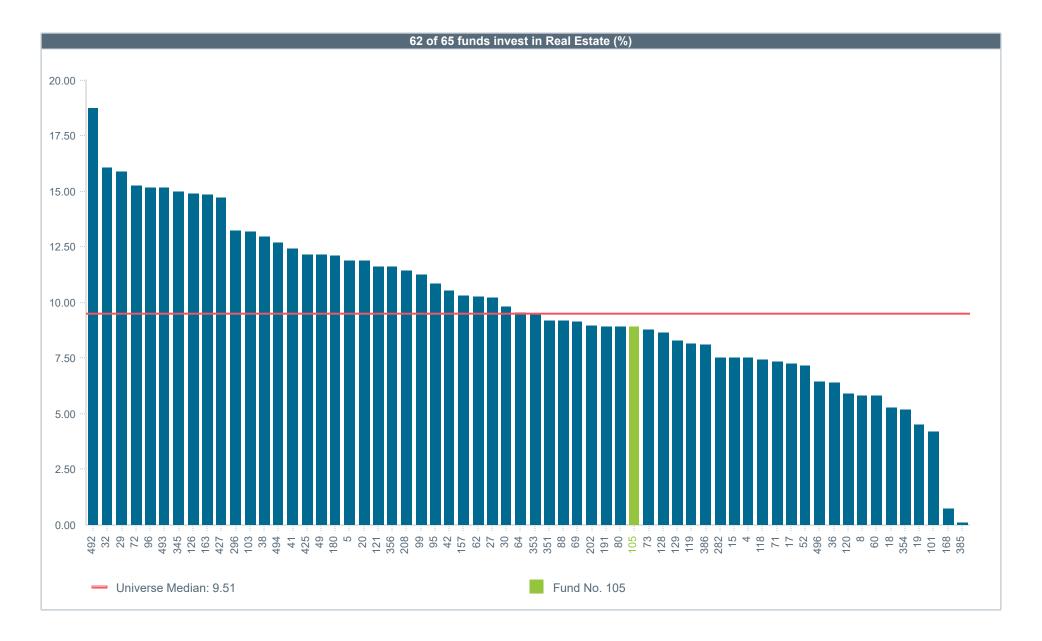


Fixed Income Style Allocation As of June 30, 2023



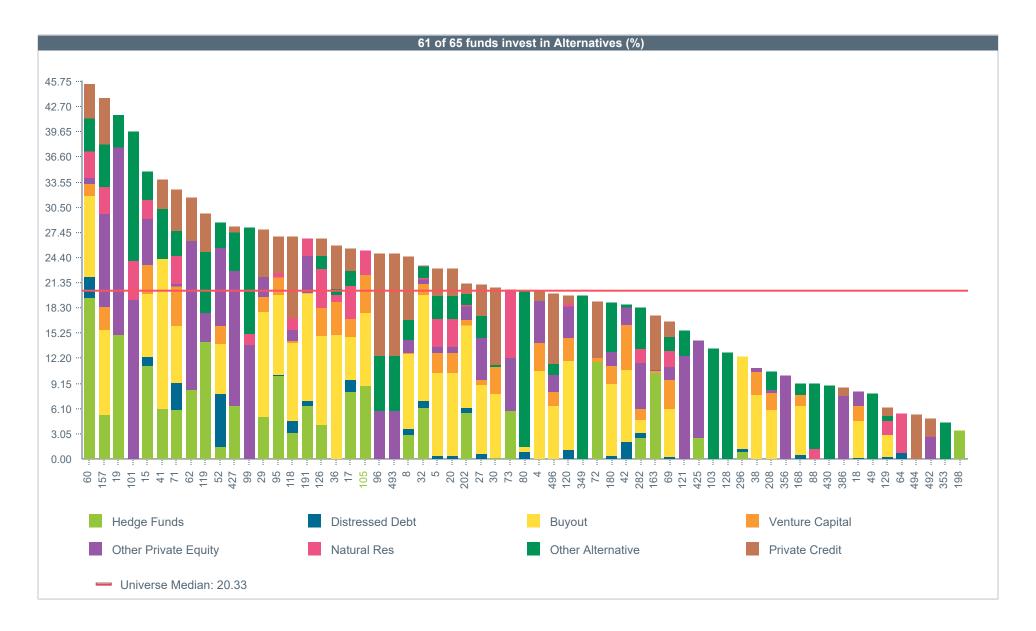


Real Estate Allocation As of June 30, 2023



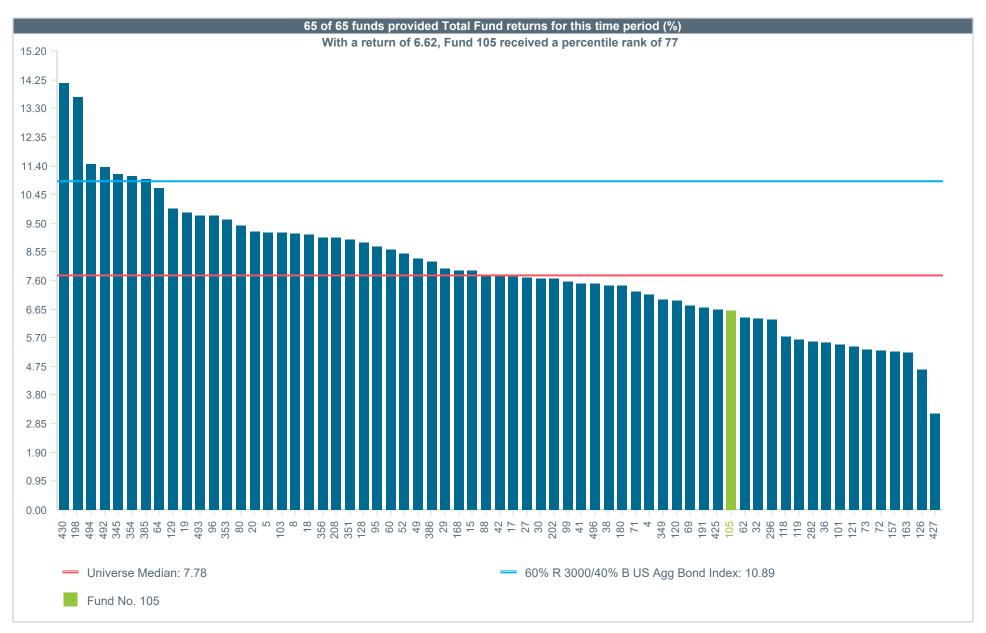


Alternatives Style Allocation As of June 30, 2023



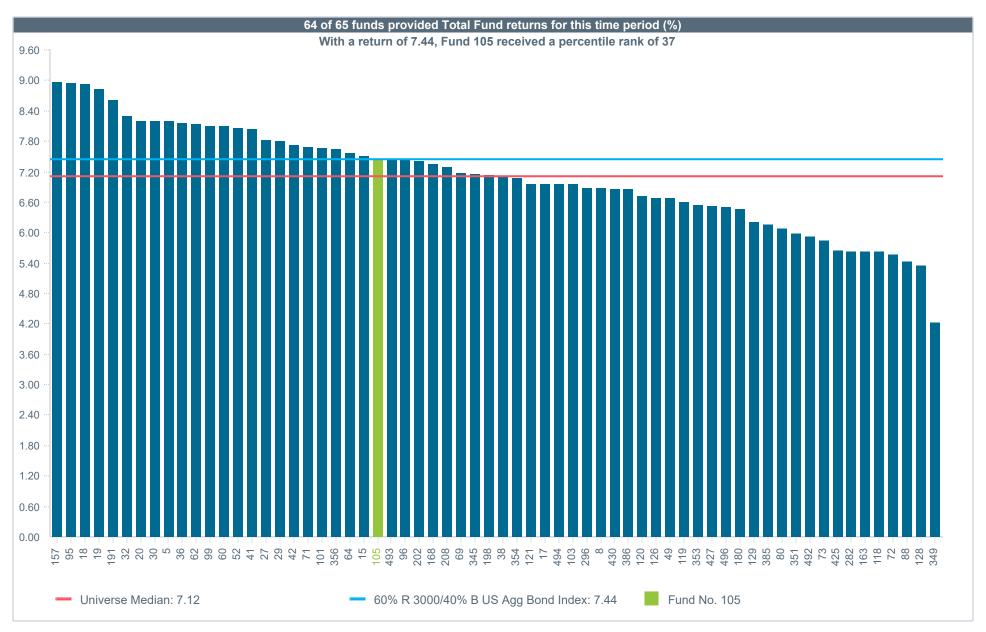


1 Year Annualized Total Fund Returns
As of June 30, 2023





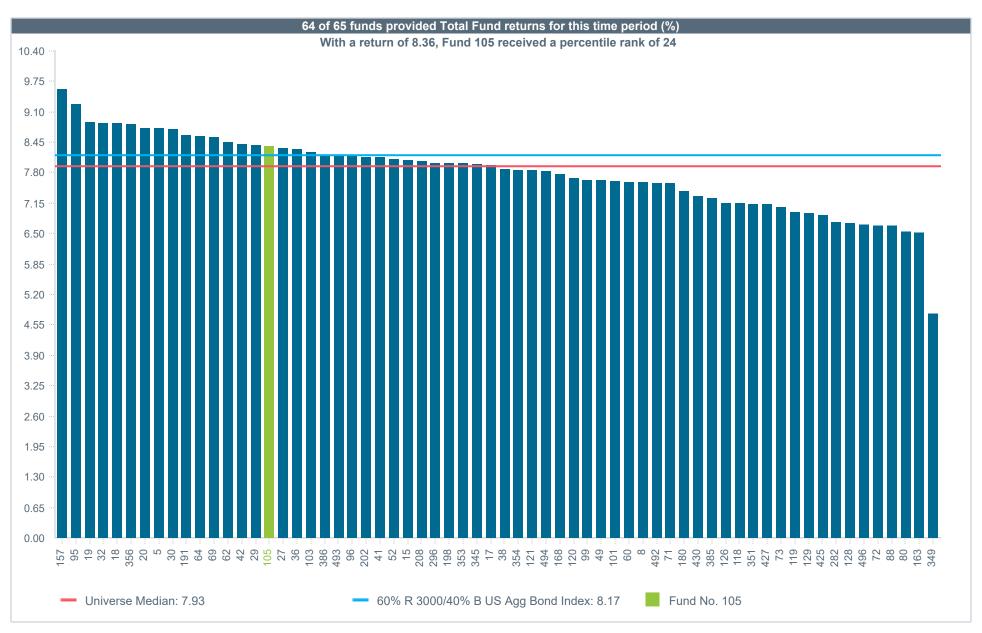
5 Year Annualized Total Fund Returns
As of June 30, 2023



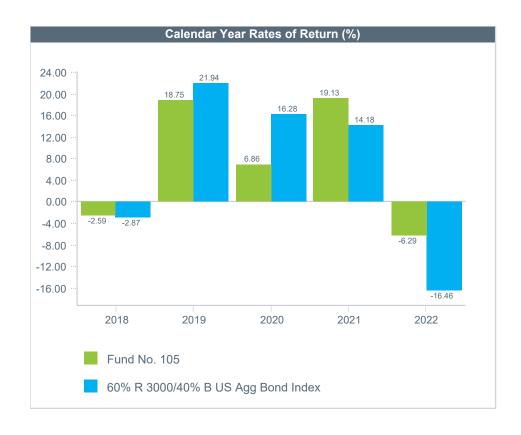


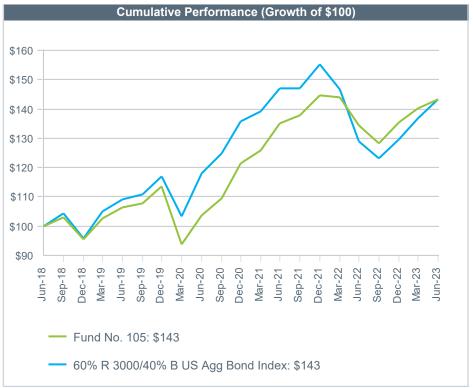
10 Year Annualized Total Fund Returns

As of June 30, 2023





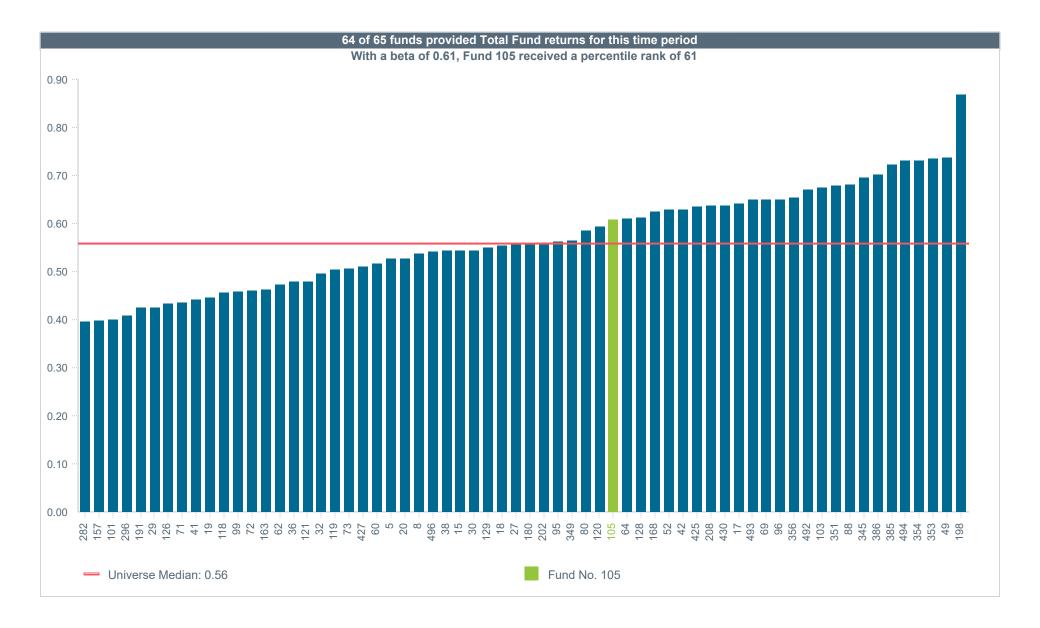




		Annualized Retu	rns (%)
	1 Year	3 Years	5 Years
Fund No. 105	6.62	11.42	7.44
60% R 3000/40% B US Agg Bond Index	10.89	6.70	7.44
Variance	-4.27	4.72	0.00

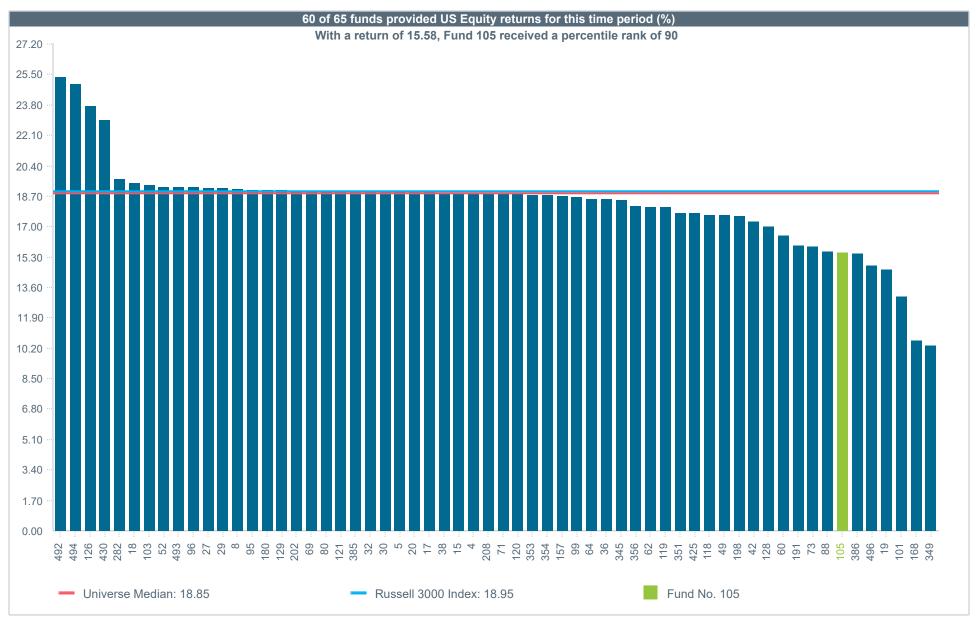


10 Year Total Fund Beta As of June 30, 2023

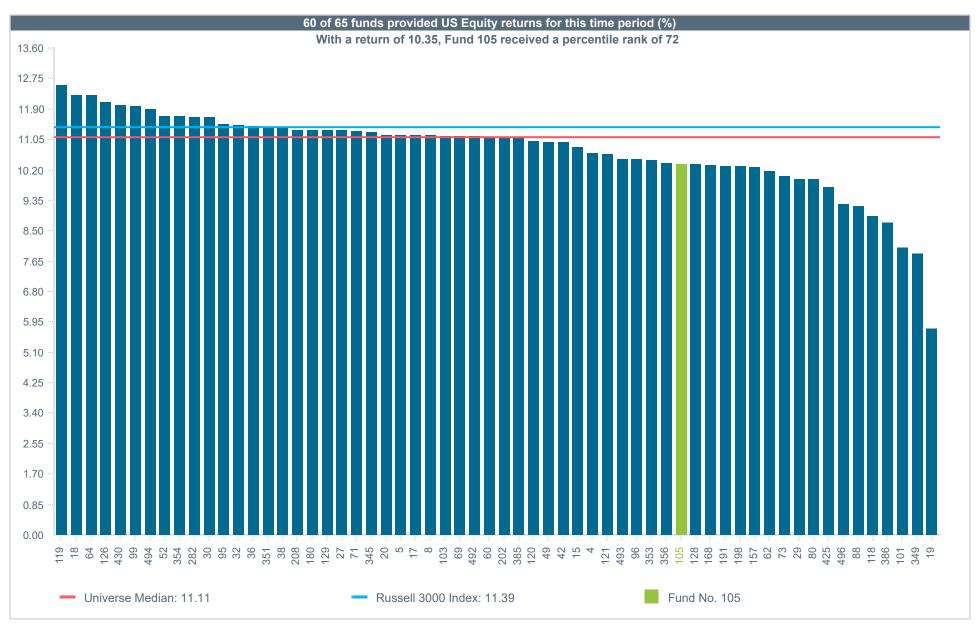


Funds with less history than the specified time period will not appear in the chart. Benchmark used is the S&P 500 Index (Cap Wtd).

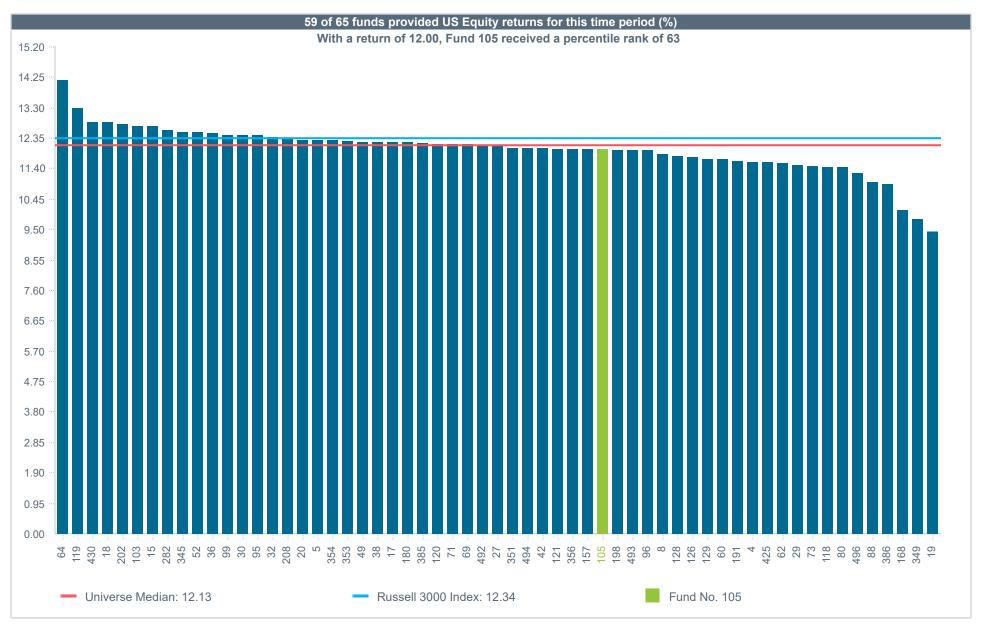




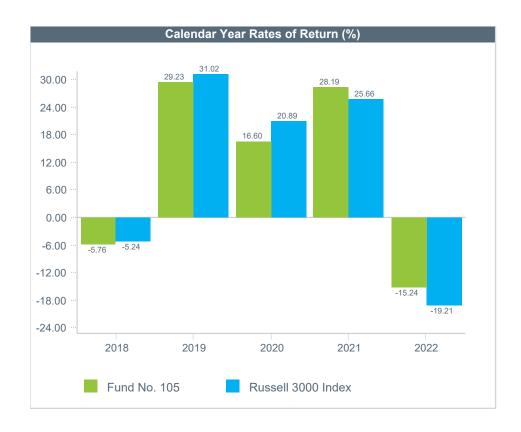


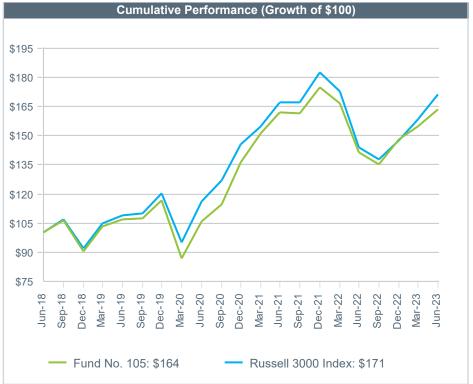






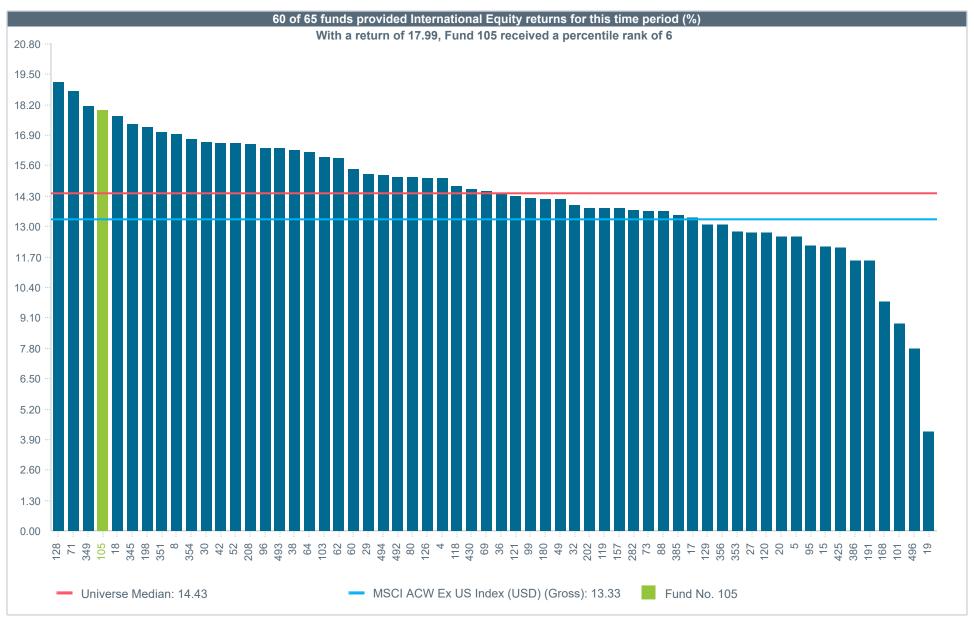




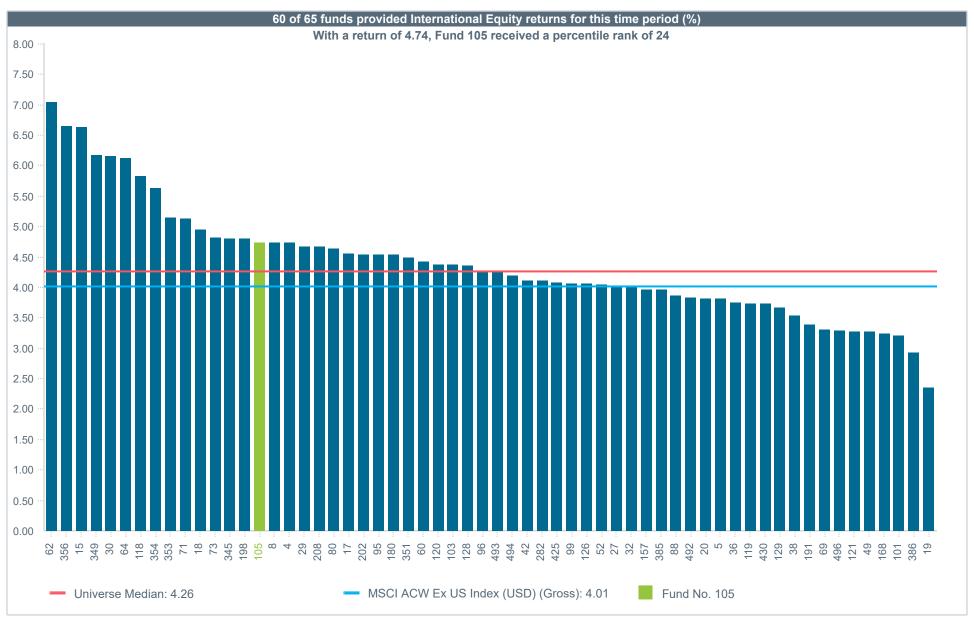


		Annualized Retur	ns (%)
	1 Year	3 Years	5 Years
Fund No. 105	15.58	15.52	10.35
Russell 3000 Index	18.95	13.89	11.39
Variance	-3.37	1.63	-1.04

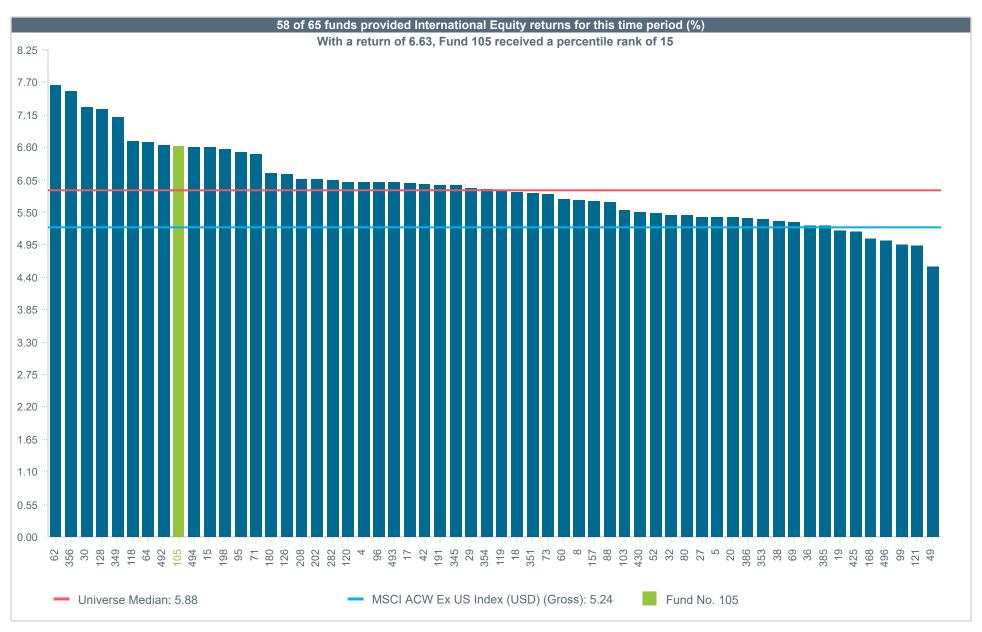




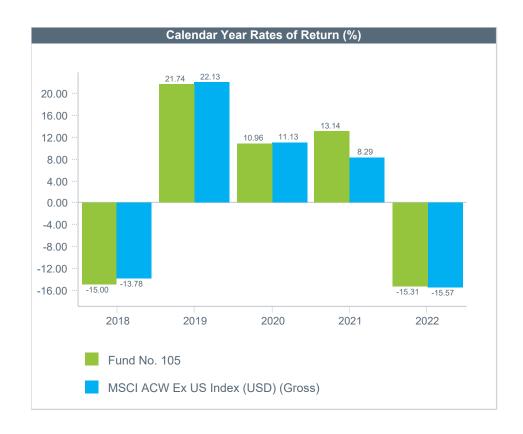


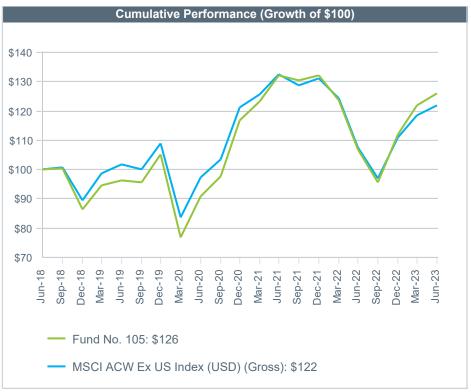






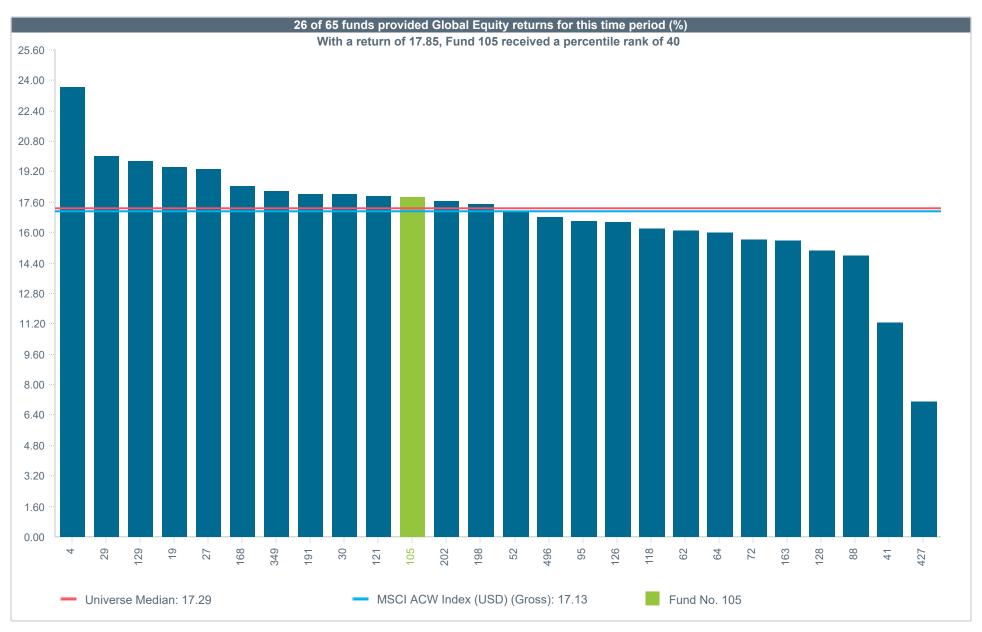




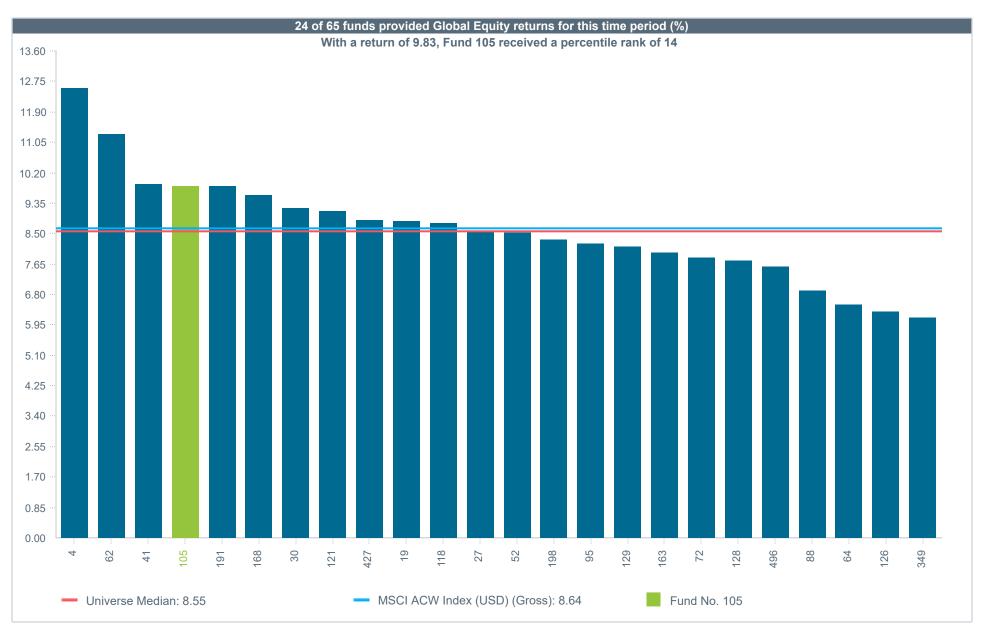


		rns (%)	
	1 Year	3 Years	5 Years
Fund No. 105	17.99	11.58	4.74
MSCI ACW Ex US Index (USD) (Gross)	13.33	7.75	4.01
Variance	4.66	3.83	0.73

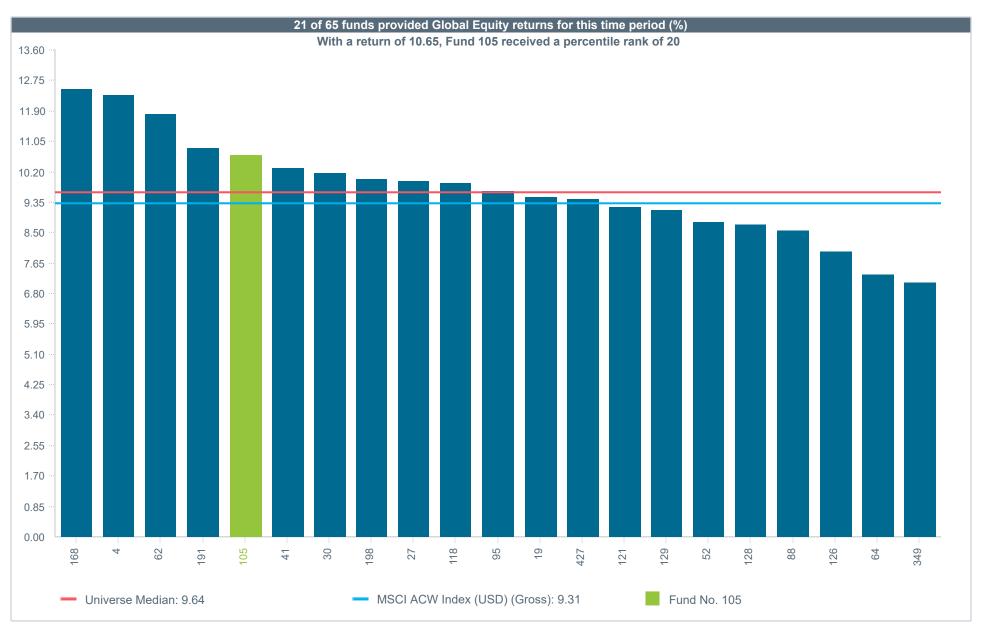






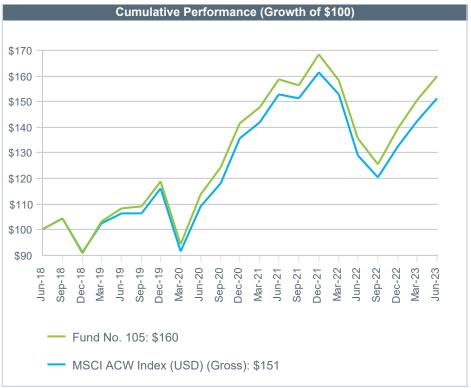










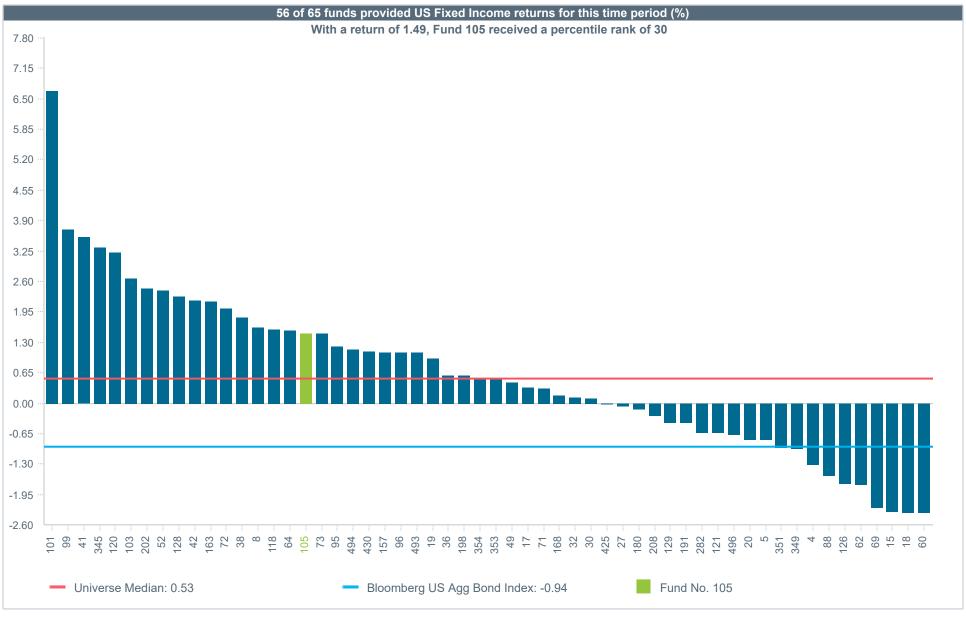


		Annualized Retu	rns (%)
	1 Year	3 Years	5 Years
Fund No. 105	17.85	12.00	9.83
MSCI ACW Index (USD) (Gross)	17.13	11.51	8.64
Variance	0.72	0.49	1.19



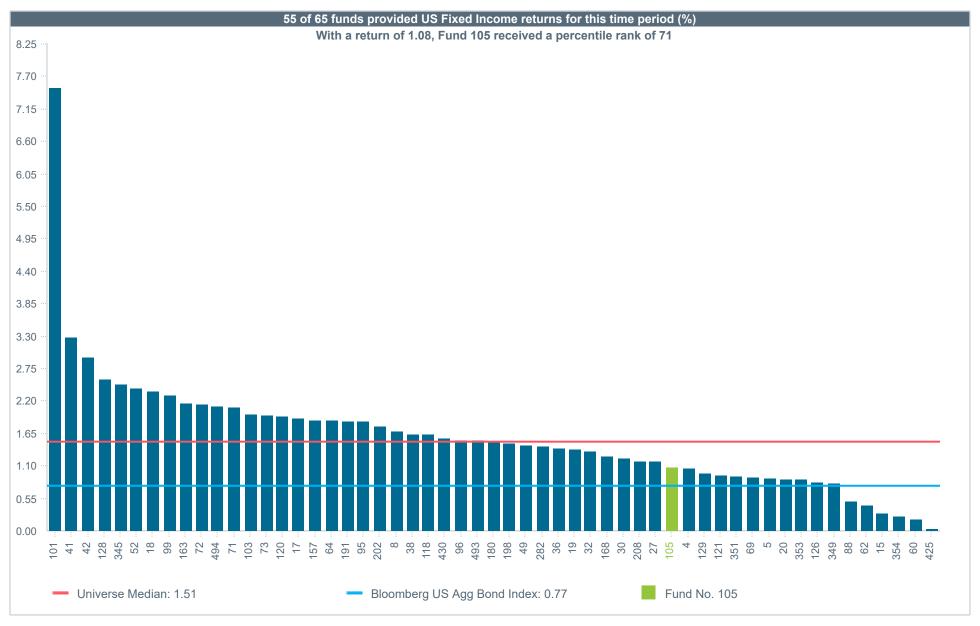
1 Year Annualized US Fixed Income Returns

As of June 30, 2023



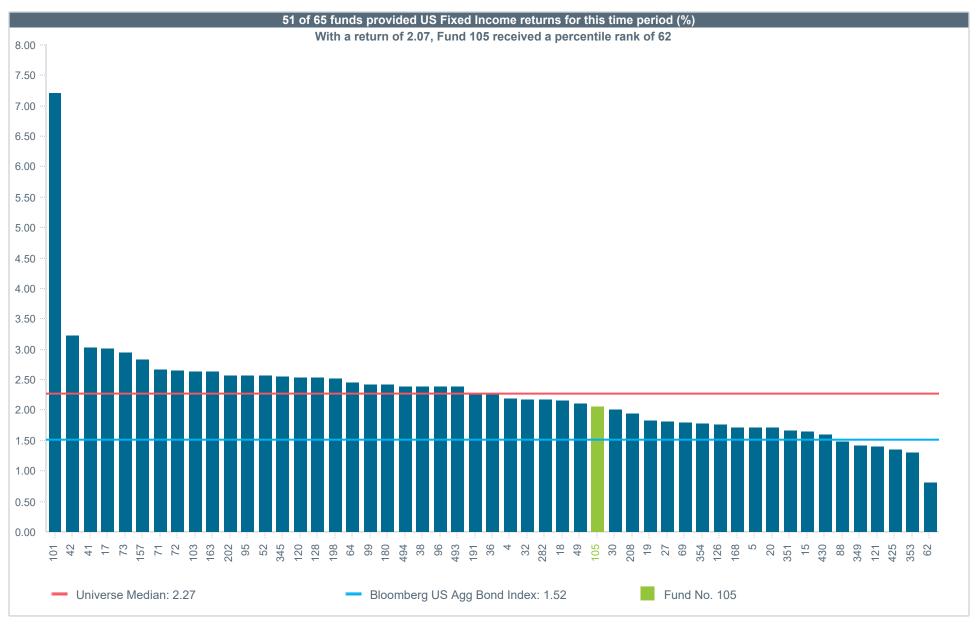


5 Year Annualized US Fixed Income Returns As of June 30, 2023

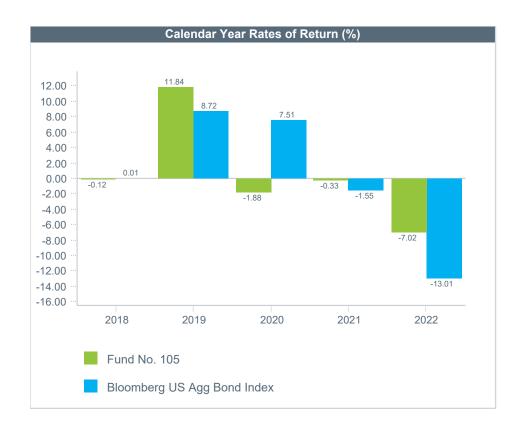


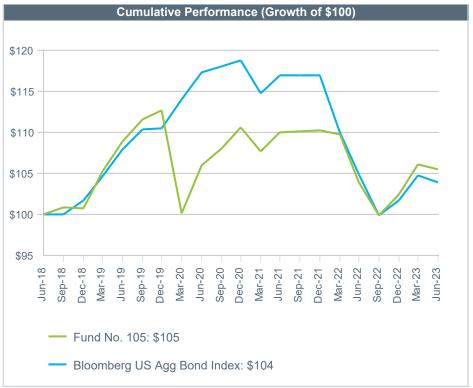


10 Year Annualized US Fixed Income Returns



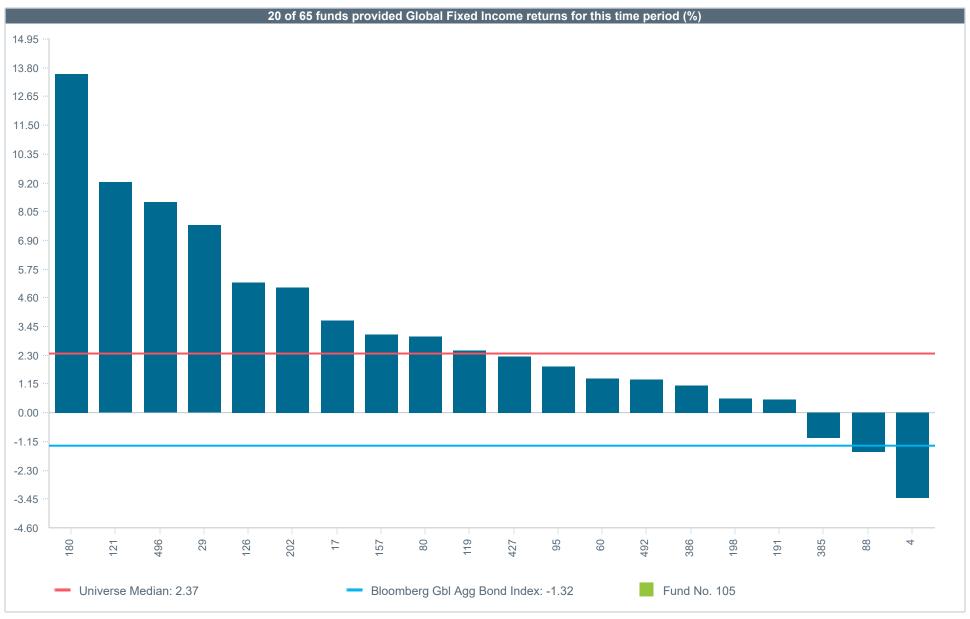




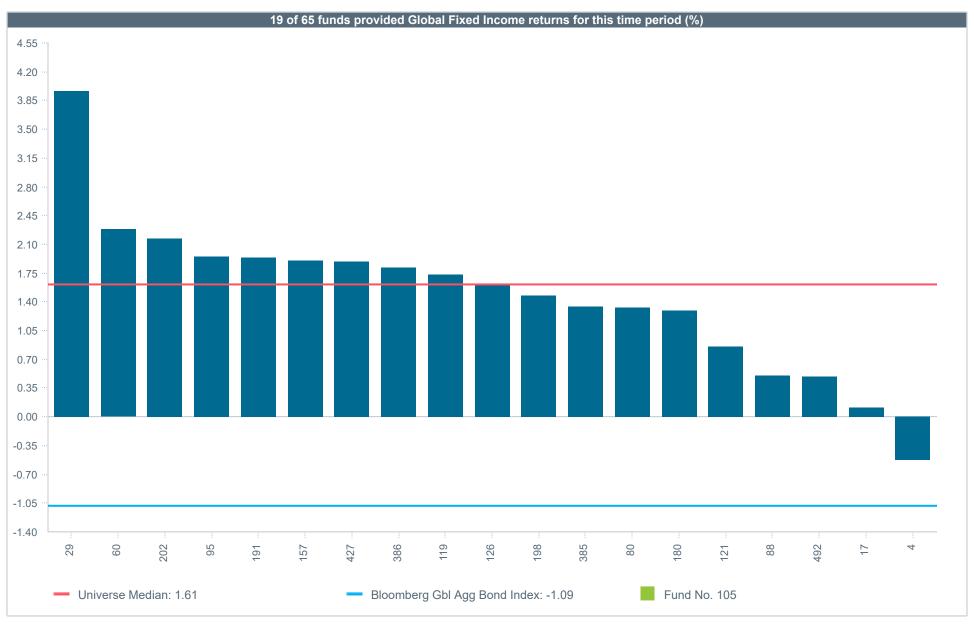


		Annualized Retu	ns (%)
	1 Year	3 Years	5 Years
Fund No. 105	1.49	-0.13	1.08
Bloomberg US Agg Bond Index	-0.94	-3.97	0.77
Variance	2.43	3.84	0.31

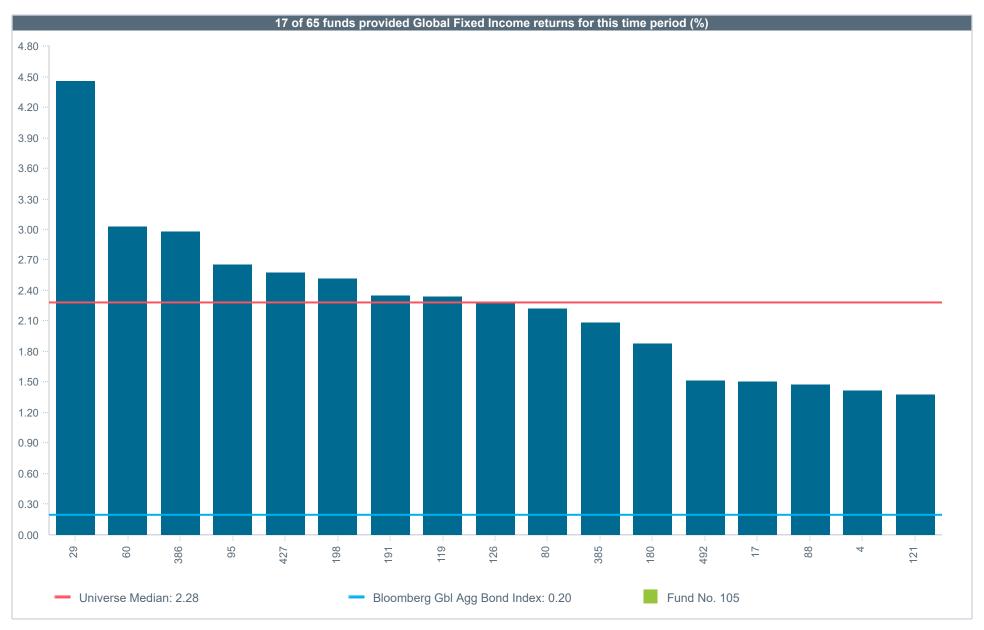














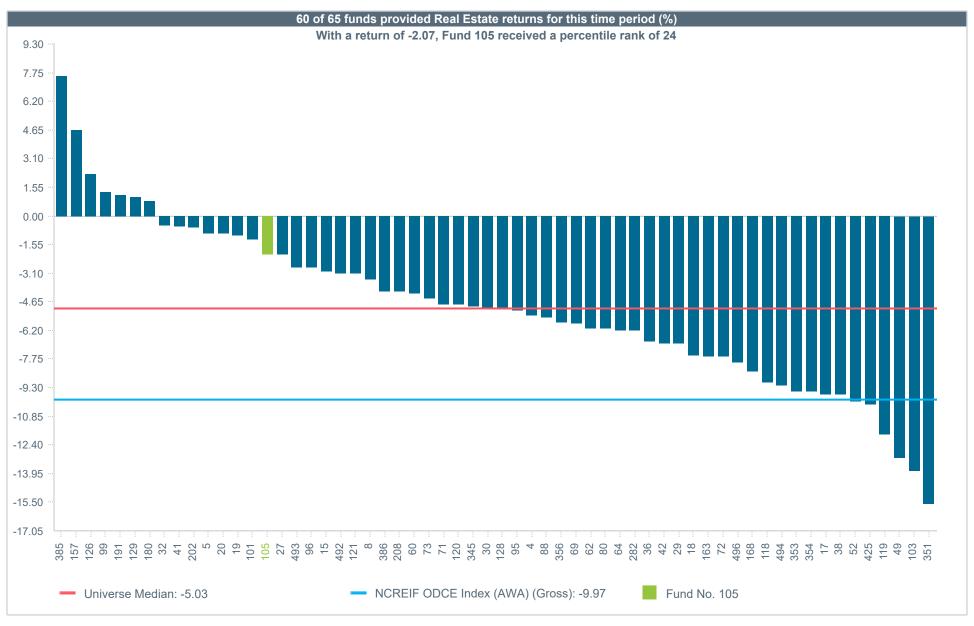
Calendar Year Rates of Return (%) Cumulative Performance (Growth of \$100)
Fund No. 105 does not have return data for Global Fixed Income

		Annualized Retu	rns (%)
	1 Year	3 Years	5 Years
Fund No. 105	N/A	N/A	N/A
Bloomberg Gbl Agg Bond Index	N/A	N/A	N/A
Variance	N/A	N/A	N/A



1 Year Annualized Real Estate Returns

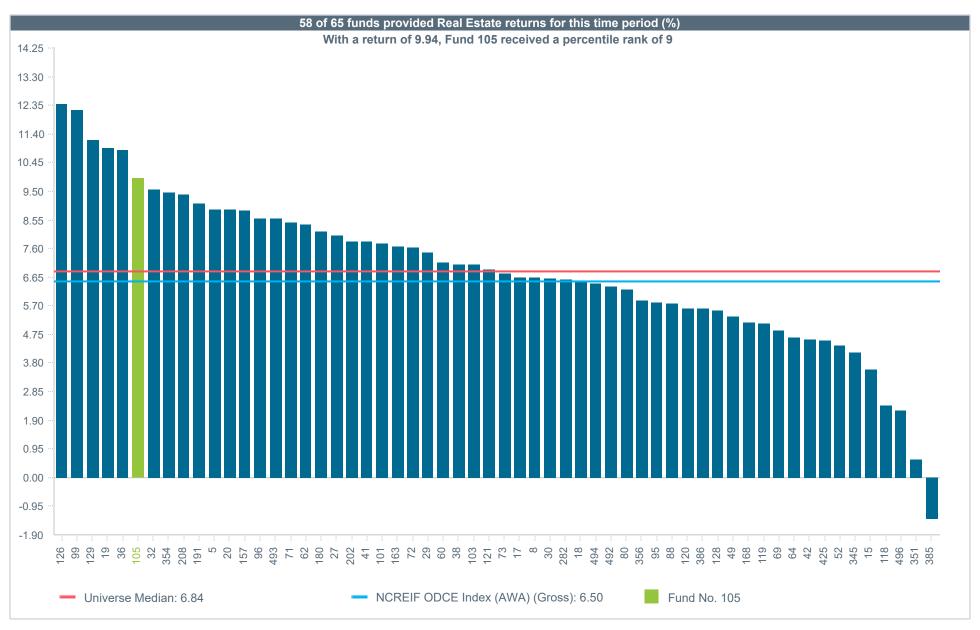
As of June 30, 2023





5 Year Annualized Real Estate Returns

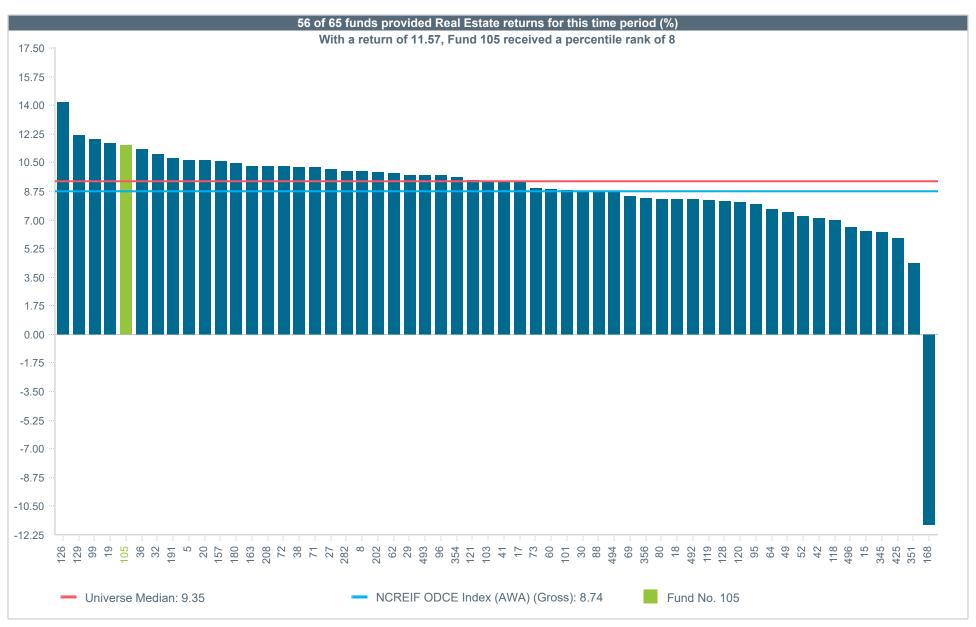
As of June 30, 2023



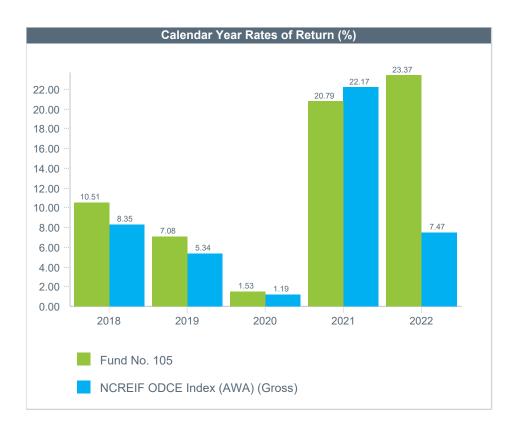


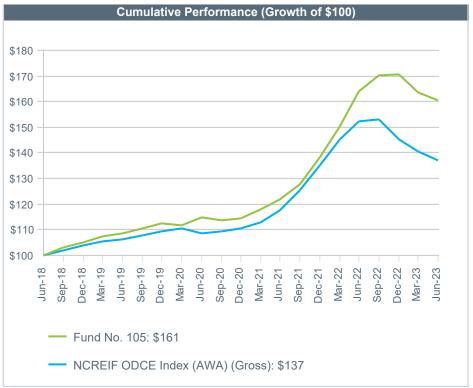
10 Year Annualized Real Estate Returns

As of June 30, 2023









		rns (%)	
	1 Year	3 Years	5 Years
Fund No. 105	-2.07	11.79	9.94
NCREIF ODCE Index (AWA) (Gross)	-9.97	7.99	6.50
Variance	7.90	3.80	3.44





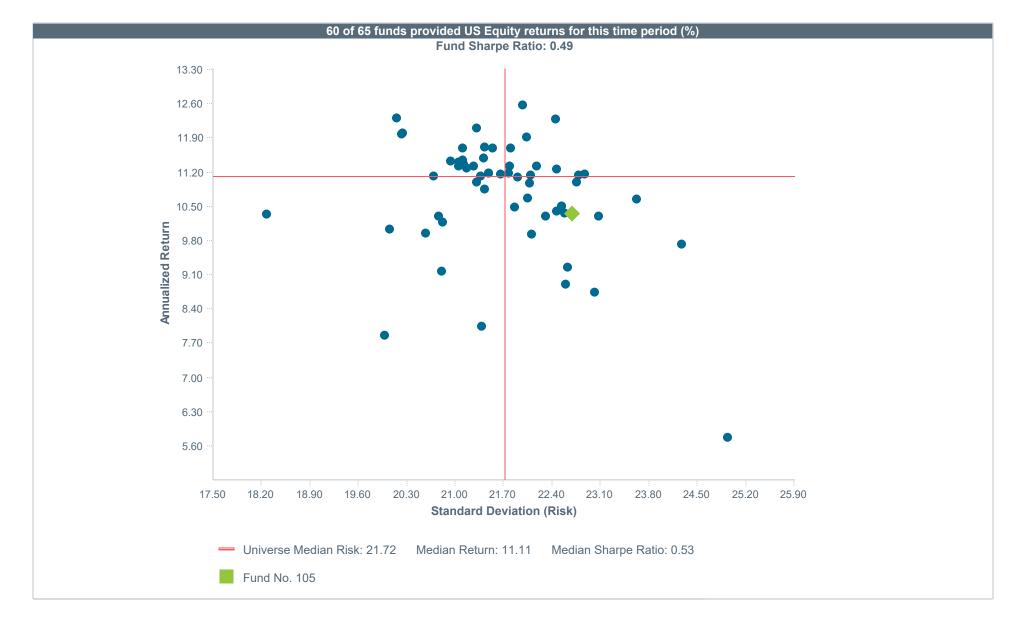






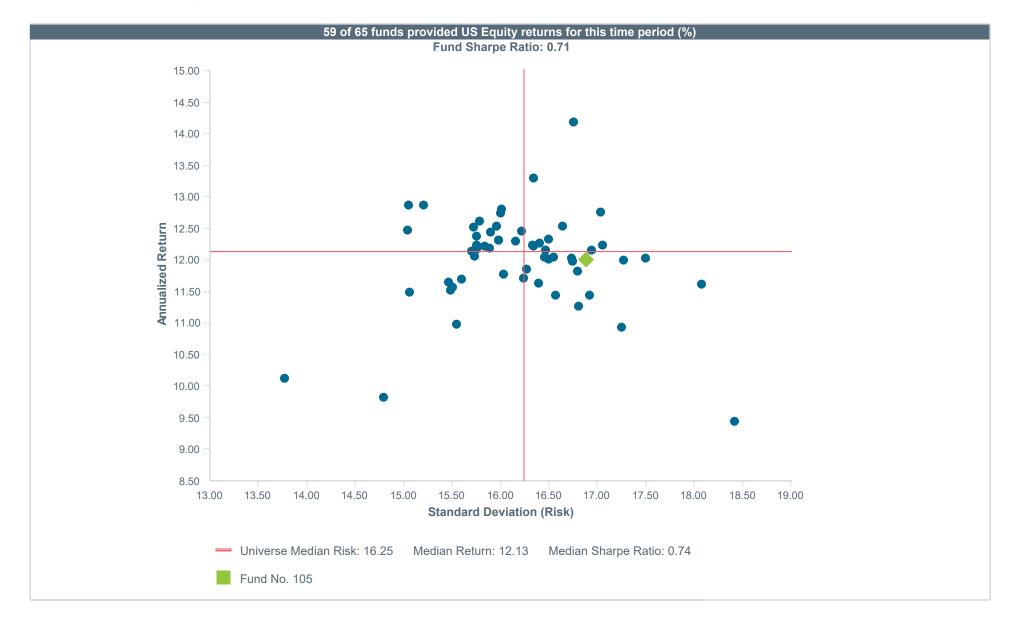












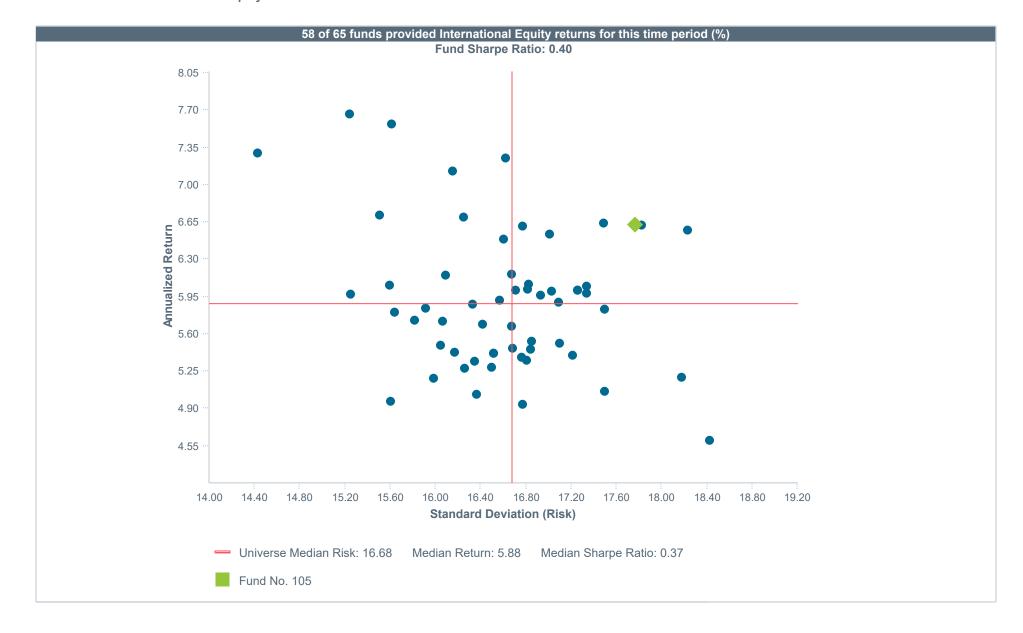






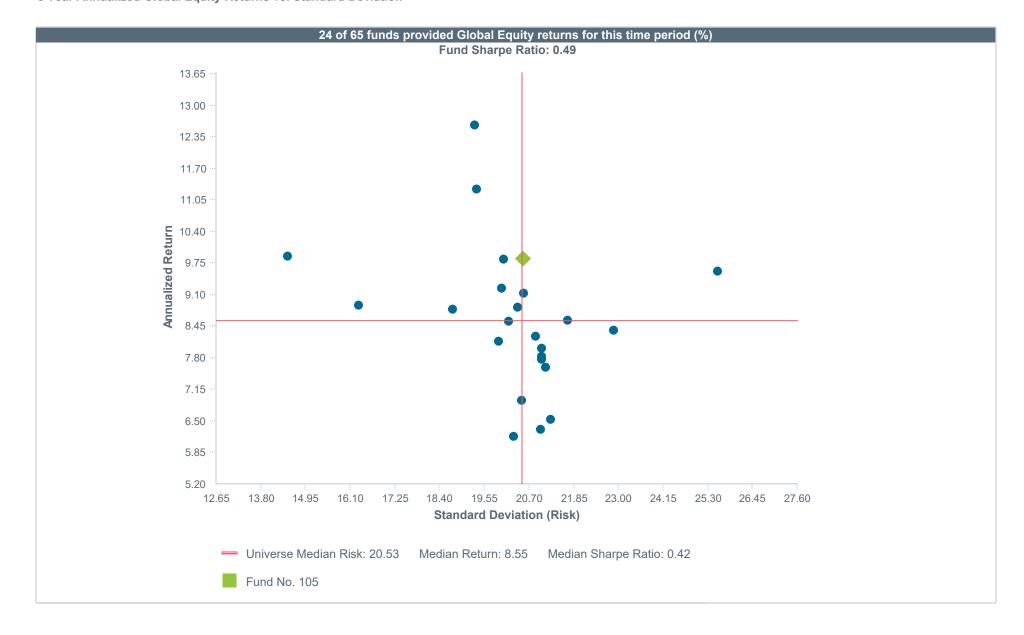






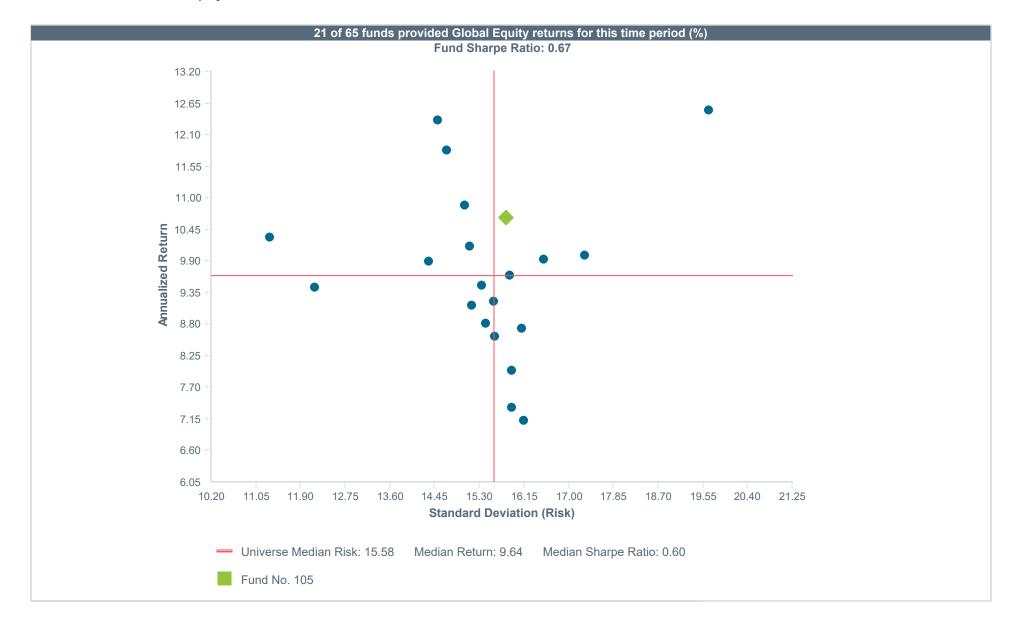






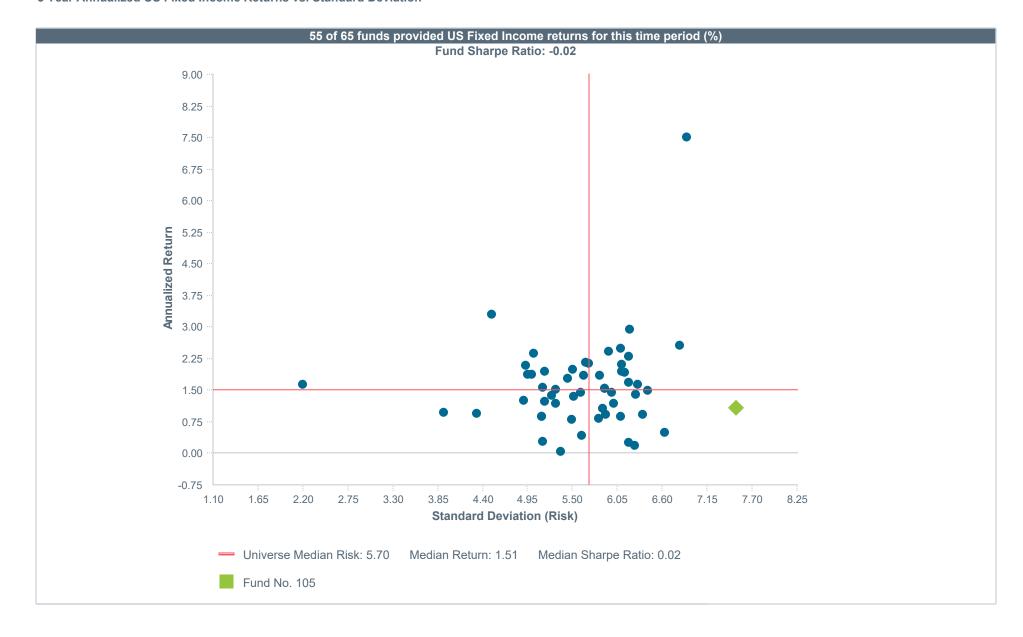












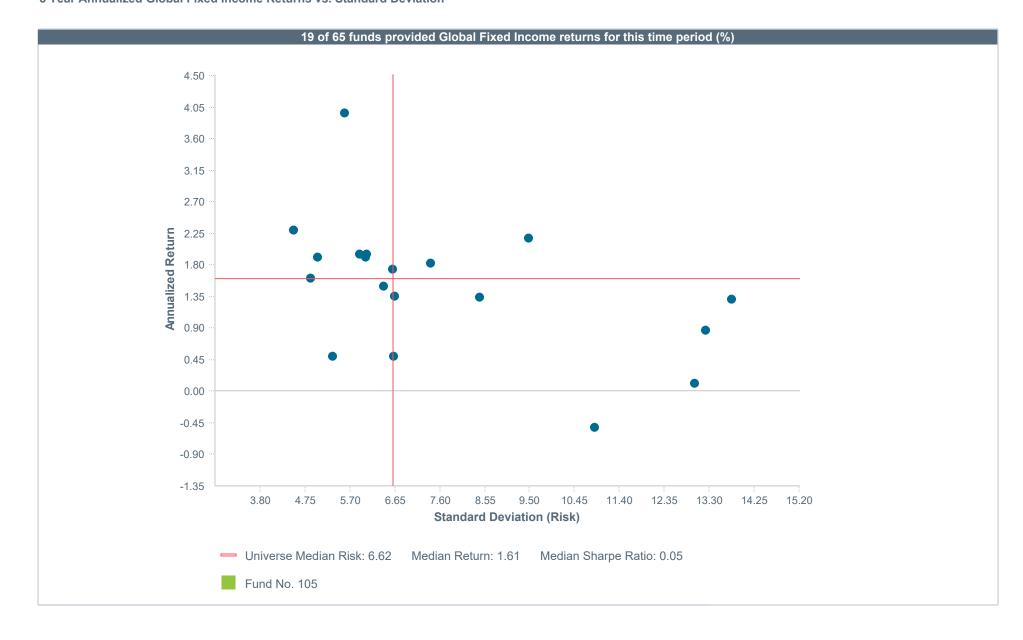






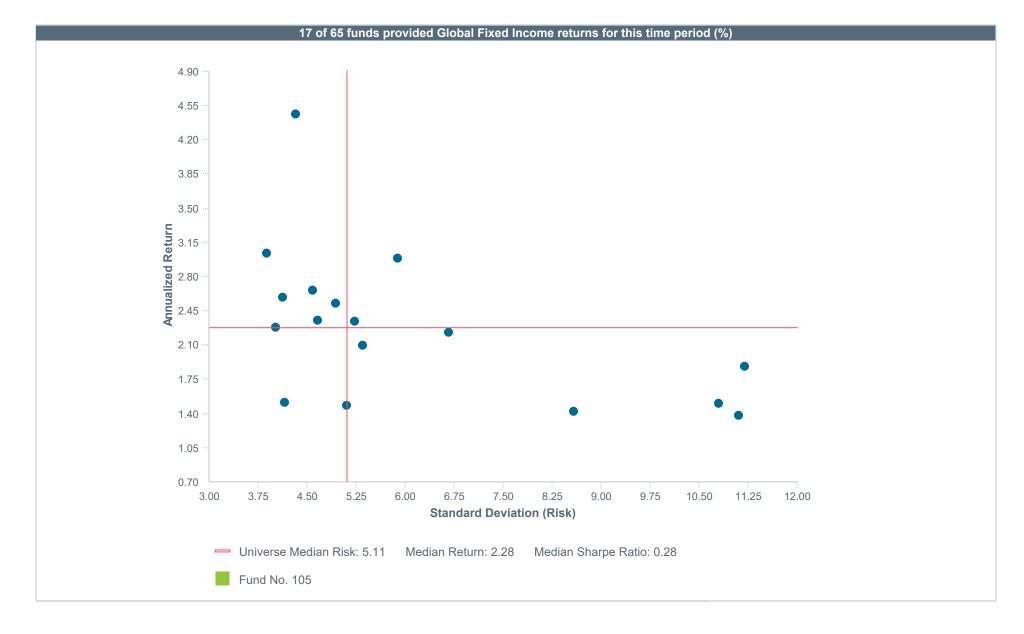






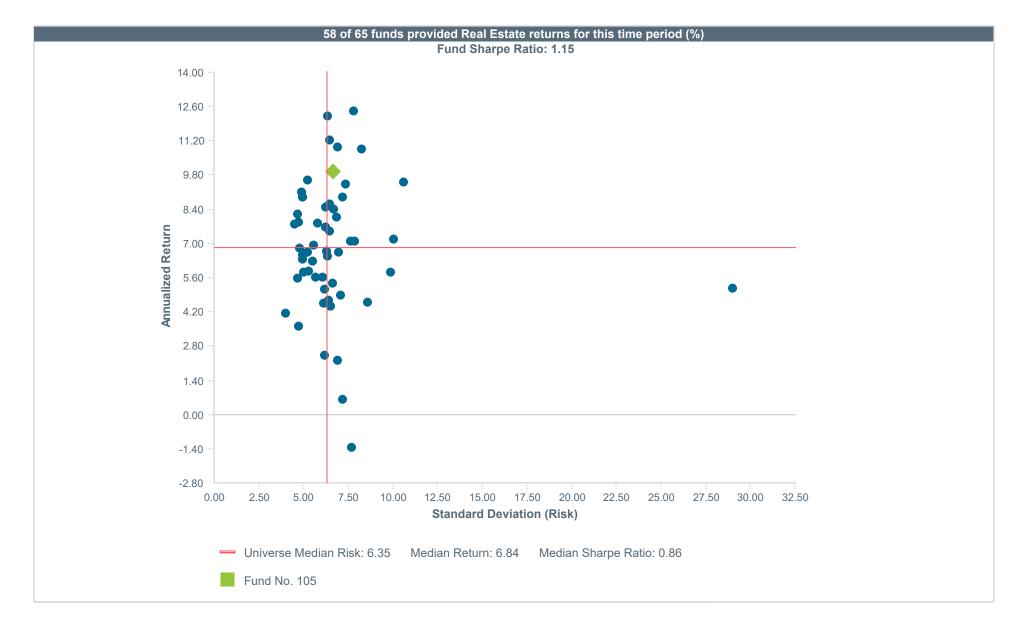






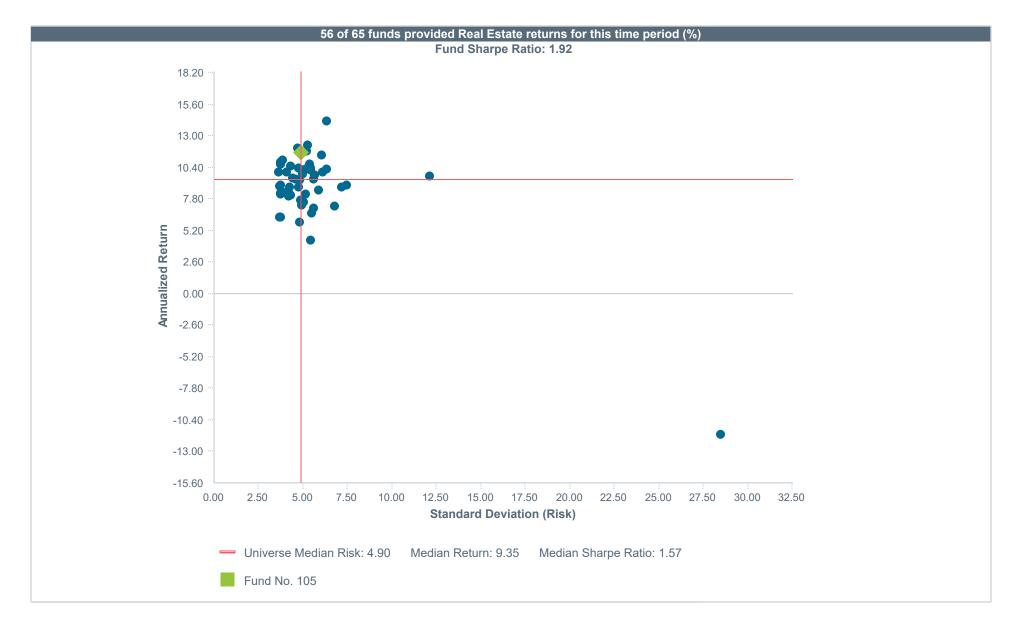






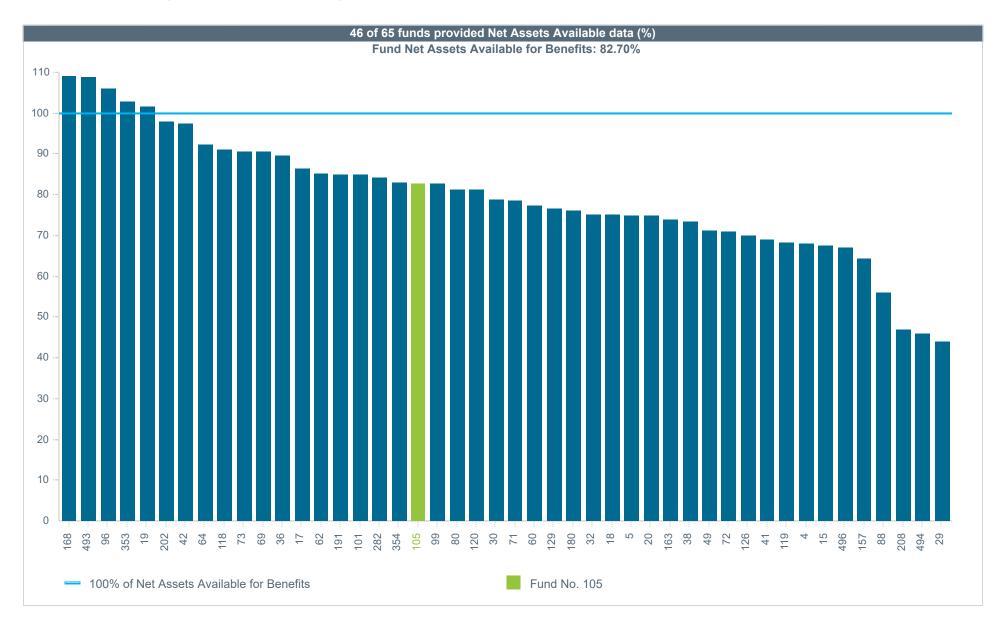










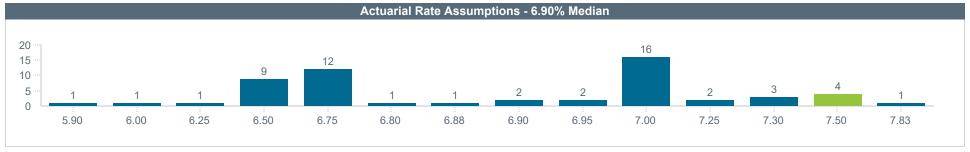


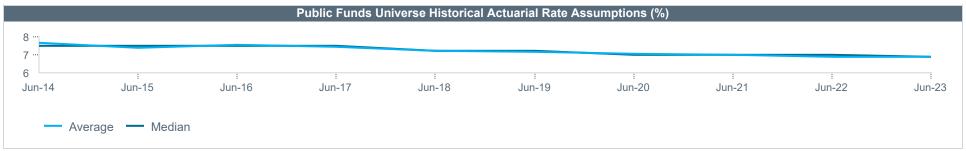


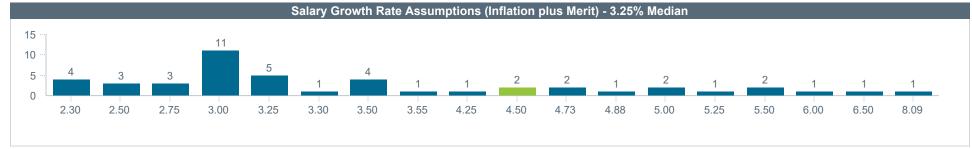


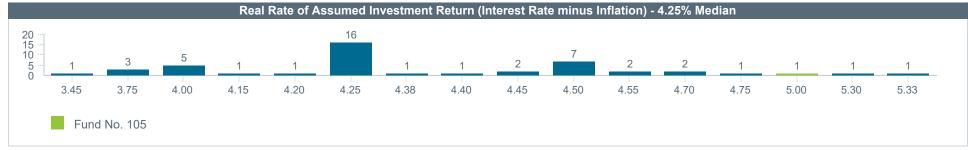
Actuarial Assumption Rates

As of June 30, 2023









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



Overlay Survey Summary

As of June 30, 2023

Overlay Survey Summary

Q1. Of the 65 participants in the 2023 Q2 Public Fund Report, 49 participants provided a response to the Overlay Survey. Of those participants, 21 are currently using a form of overlay, 1 is considering evaluating a form of overlay, and 27 are not currently using or considering evaluating any form of overlay.

- Q2. Of the 20 participants that provided a response to the Overlay Survey and have exposure to an overlay manager or managers, the purposes of the overlay programs are distributed as follows:
 - 25 % Manage foreign currency risk
 - 25 % Generate alpha
 - 0 % Match Plan liabilities more closely (either as part of an explicit or conceptual framework)
 - 0 % Express a view on US Dollar
 - 0 % Manage market risk within an LDI construct
 - 30 % Tactical asset allocation
 - 60 % Cash equitization
 - 50 % Rebalancing management
 - 35 % Transition management
 - 15 % Other
- Q3. Of the 9 participants that provided a response to the Overlay Survey and have exposure to a currency manager or managers, the program structures are distributed as follows:
 - 33 % Static hedge ratio
 - 33 % Dynamic hedging program where manager varies the hedge ratio
 - 44 % Alpha generating currency manager focused on absolute return
- Q4. Of the 4 participants that provided a response to the Overlay Survey and indicated use of a hedge ratio on a currency program, the responses are distributed as follows:
 - 1 response indicated 50 % hedge on All foreign currency exposure in the Fund
 - 3 responses indicated 50 % hedge on Developed Equity exposure
 - 1 response indicated 65 % hedge on Developed Equity exposure
 - 2 responses indicated 50 % hedge on International Equity exposure
 - 1 response indicated 65 % hedge on International Equity exposure
 - 1 response indicated 50 % hedge on Other



Supplemental Questions

As of June 30, 2023

Supplemental Questions

- Q1. Of the 43 respondents, the methods of Private Equity reporting are distributed as follows:
 - 44 % Valuations and cash flows are updated and reflected as received by custodian
 - 5 % Reported on a 1 month lag to account for additional valuations and cash flow activity
 - 51 % Reported on a 1 quarter lag to account for most all valuations and cash flow activity
- Q2. Of the 48 respondents, the methods of Private Real Estate reporting are distributed as follows:
 - 52 % Valuations and cash flows are updated and reflected as received by custodian
 - 6 % Reported on a 1 month lag to account for additional valuations and cash flow activity
 - 42 % Reported on a 1 quarter lag to account for most all valuations and cash flow activity
- Q3. Of the 48 respondents, the responses to whether or not Private Equity and/or Private Real Estate valuations are restated once final valuations are received from the managers are distributed as follows:
 - 27 % Answered 'Yes' valuations are restated
 - 73 % Answered 'No' valuations are not restated
- Q4. Of the 47 respondents, the responses to whether or not a third party risk software provider is used are distributed as follows:
 - 34 % Answered 'Yes'
 - 66 % Answered 'No'



Addendum and Glossary

As of June 30, 2023

Miscellaneous Comments

- Performance shown is gross of fees, with the exception of the following:
 - Funds 8, 31, 49, 60, 350, and 351: Performance shown is net of fees.
 - Funds 4, 55, 75, and 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 Benefits includes funding percentage valuation as of dates between June 2022 and June 2023.
 - Fund 96: Net Assets Available for Benefits shown is the higher funded ratio for one of two commingled systems reported by the fund.
- Allocations shown reflect dedicated managers/mandates rather than actual exposure, with the exception of the following:
 - Funds 29, 86, and 119: Performance shown for Global Fixed Income includes US and Non-US Fixed Income funds.
 - Fund 121: Performance shown for Global Fixed Income includes Non-US Fixed Income funds.
 - Funds 4, 42, 64, 99, 202, and 240: Performance shown for US Fixed Income includes US and Non-US Fixed Income funds.

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. Calculation is based on quarterly periodicity.

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., ICE BofAML 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. Calculation is based on quarterly periodicity.

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.



