



UFCW-Giant Variable Annuity Fund

Master Consulting Services Report

**Period Ended
December 31, 2023**

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Market Discussion

4Q | 2023



Financial Market Performance

Periods Ending December 31, 2023

Strategy	Sector	Index	QTR	YTD	2022	2021	2020	2019	2018	2017	1-Yr	3-Yr	5-Yr	10-Yr	20-Yr
Stocks	US Large Cap	S&P 500	11.7%	26.3%	-18.1%	28.7%	18.4%	31.5%	-4.4%	21.8%	26.3%	10.0%	15.7%	12.0%	9.7%
	US Small Cap	Russell 2000	14.0%	16.9%	-20.5%	14.8%	19.9%	25.5%	-11.0%	14.6%	16.9%	2.2%	9.9%	7.1%	8.1%
	All Country	MSCI All Country World (net)	11.0%	22.2%	-18.4%	18.5%	16.3%	26.6%	-9.4%	24.0%	22.2%	5.7%	11.7%	7.9%	7.5%
	Non-US Developed	MSCI EAFE (net)	10.4%	18.2%	-14.5%	11.3%	7.8%	22.0%	-13.8%	25.0%	18.2%	4.0%	8.2%	4.3%	5.6%
	Emerging Markets	MSCI EM (net)	7.9%	9.8%	-20.1%	-2.5%	18.3%	18.4%	-14.6%	37.3%	9.8%	-5.1%	3.7%	2.7%	6.8%
	Int'l Small Cap	MSCI EAFE Small Cap (net)	11.1%	13.2%	-21.4%	10.1%	12.3%	25.0%	-17.9%	33.0%	13.2%	-0.7%	6.6%	4.8%	7.1%
Bonds	Treasury	Bloomberg US Govt	5.6%	4.1%	-12.3%	-2.3%	7.9%	6.8%	0.9%	2.3%	4.1%	-3.7%	0.6%	1.3%	2.7%
	Broad Market	Bloomberg Aggregate	6.8%	5.5%	-13.0%	-1.5%	7.5%	8.7%	0.0%	3.5%	5.5%	-3.3%	1.1%	1.8%	3.2%
	Intermediate	Bloomberg Gov/Credit Int.	4.6%	5.2%	-8.2%	-1.4%	6.4%	6.8%	0.9%	2.1%	5.2%	-1.6%	1.6%	1.7%	2.9%
	High Yield	Bloomberg HY BaB 2% IC	7.2%	12.6%	-10.6%	4.6%	7.7%	15.2%	-1.9%	6.9%	12.6%	1.7%	5.5%	4.6%	6.2%
	Short Duration HY	ICE BofA 1-3 Yrs BB US Cash Pay HY	4.0%	8.9%	-3.1%	3.2%	5.4%	8.7%	1.3%	3.6%	8.9%	2.9%	4.5%	3.9%	5.4%
	Global Bonds	FTSE WGBI	8.1%	5.2%	-18.3%	-7.0%	10.1%	5.9%	-0.8%	7.5%	5.2%	-7.2%	-1.4%	-0.3%	1.9%
GTAA	Unconstrained	65% MSCI World /35% FTSE WGBI	10.3%	17.0%	-18.1%	11.0%	14.6%	19.9%	-5.8%	17.0%	17.0%	2.2%	7.9%	5.6%	6.0%
Real Estate	Core	NCREIF ODCE Equal Weighted (net)	-5.4%	-13.4%	7.6%	21.9%	0.8%	5.2%	7.3%	6.9%	-13.4%	4.3%	3.8%	6.7%	6.2%
Hedge Fund of Funds	Diversified FOFs	HFRI FOF Composite	3.6%	6.6%	-5.3%	6.2%	10.9%	8.4%	-4.0%	7.8%	6.6%	2.3%	5.2%	3.3%	3.3%
	Equity Long-Short	HFRI Equity Hedge	5.6%	10.5%	-10.1%	11.7%	17.9%	13.7%	-7.1%	13.3%	10.5%	3.5%	8.3%	5.2%	5.2%
Commodities	Commodities	Goldman Sachs Commodity	-10.7%	-4.3%	26.0%	40.4%	-23.7%	17.6%	-13.8%	5.8%	-4.3%	19.2%	8.7%	-3.6%	-1.5%

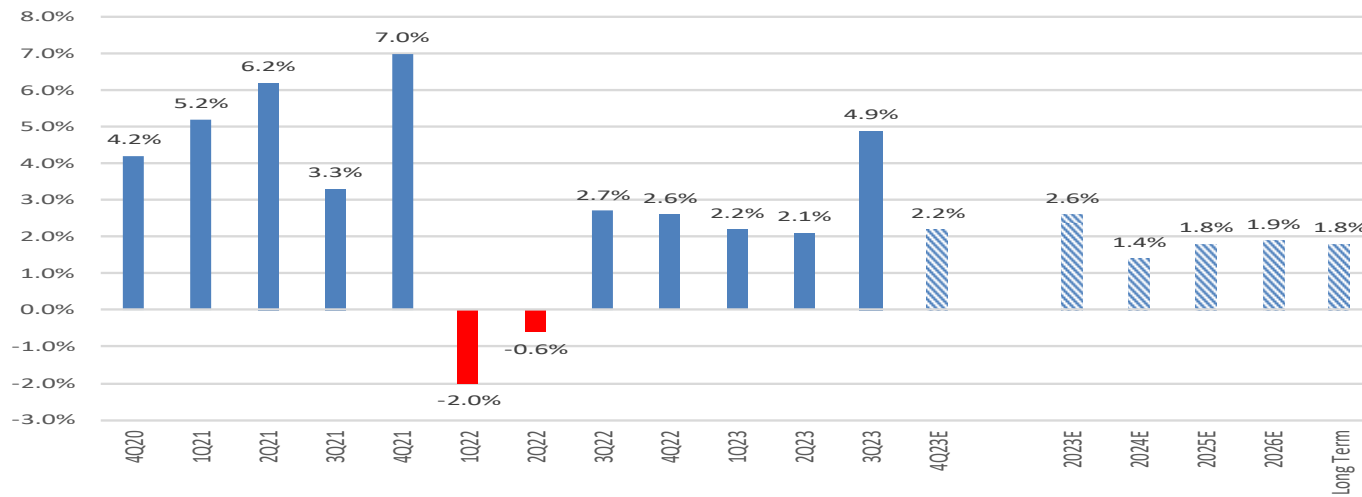
Asset Class Performance “Quilt”

2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
EM Equity 78.5%	Small Cap 26.9%	RE 15.0%	EM Equity 18.2%	Small Cap 38.8%	Large Cap 13.7%	RE 14.2%	Small Cap 21.3%	EM Equity 37.3%	RE 7.3%	Large Cap 31.5%	Small Cap 20.0%	Large Cap 28.7%	RE 7.6%	Large Cap 26.3%
HY 57.5%	Mid Cap 25.5%	Fx Inc 7.8%	Int'l 17.3%	Mid Cap 34.8%	Mid Cap 13.2%	Large Cap 1.4%	HY 17.5%	Int'l 25.0%	SD HY 1.4%	Mid Cap 30.5%	Large Cap 18.4%	Mid Cap 22.6%	SD HY -3.1%	Int'l 18.2%
Mid Cap 40.5%	EM Equity 18.9%	HY 4.4%	Mid Cap 17.3%	Large Cap 32.4%	RE 11.4%	SD HY 1.2%	Mid Cap 13.8%	Large Cap 21.8%	Fx Inc 0.0%	Small Cap 25.5%	EM Equity 18.3%	RE 21.9%	HFoF -5.2%	Mid Cap 17.2%
SD HY 36.1%	HY 15.2%	SD HY 4.4%	Small Cap 16.3%	Int'l 22.8%	Fx Inc 6.0%	Fx Inc 0.6%	Large Cap 12.0%	Mid Cap 18.5%	HY -2.3%	Int'l 22.0%	Mid Cap 17.1%	Small Cap 14.8%	HY -11.2%	GTAA 17.0%
Int'l 31.8%	RE 15.1%	Large Cap 2.1%	Large Cap 16.1%	GTAA 15.3%	Small Cap 4.9%	HFoF -0.3%	EM Equity 11.2%	GTAA 17.0%	HFoF -4.0%	GTAA 19.8%	GTAA 15.2%	Int'l 11.3%	Fx Inc -13.0%	Small Cap 16.9%
Small Cap 27.2%	Large Cap 15.1%	GTAA -0.9%	HY 15.6%	RE 12.4%	HFoF 3.4%	Int'l -0.8%	SD HY 8.5%	Small Cap 14.7%	Large Cap -4.4%	EM Equity 18.4%	HFoF 10.3%	GTAA 11.1%	Int'l -14.5%	HY 13.5%
Large Cap 26.5%	SD HY 11.7%	Mid Cap -1.6%	GTAA 10.9%	HFoF 9.0%	GTAA 3.0%	GTAA -1.6%	RE 8.4%	HFoF 7.8%	GTAA -5.7%	HY 14.4%	Int'l 7.8%	HFoF 6.0%	Mid Cap -17.3%	EM Equity 9.8%
GTAA 20.1%	GTAA 9.8%	Small Cap -4.2%	SD HY 10.2%	HY 7.4%	HY 2.5%	Mid Cap -2.4%	GTAA 5.6%	HY 7.5%	Mid Cap -9.1%	Fx Inc 8.7%	Fx Inc 7.5%	HY 5.4%	GTAA -18.1%	SD HY 8.9%
HFoF 11.5%	Int'l 7.8%	HFoF -5.7%	RE 9.9%	SD HY 5.6%	SD HY 1.9%	Small Cap -4.4%	Fx Inc 2.7%	RE 6.9%	Small Cap -11.0%	SD HY 8.7%	HY 6.2%	SD HY 4.3%	Large Cap -18.1%	HFoF 6.6%
Fx Inc 5.9%	Fx Inc 6.5%	Int'l -12.1%	HFoF 4.8%	Fx Inc -2.0%	EM Equity -2.2%	HY -4.6%	Int'l 1.0%	SD HY 3.6%	Int'l -13.8%	HFoF 8.4%	SD HY 5.4%	Fx Inc -1.5%	EM Equity -20.1%	Fx Inc 5.5%
RE -31.3%	HFoF 5.7%	EM Equity -18.4%	Fx Inc 4.2%	EM Equity -2.6%	Int'l -4.9%	EM Equity -14.9%	HFoF 0.5%	Fx Inc 3.5%	EM Equity -14.6%	RE 5.2%	RE 0.8%	EM Equity -2.5%	Small Cap -20.5%	RE -13.4%

Source: NCREIF, Bloomberg, Wilshire. Large Cap Equity: S&P 500 Index, Mid Cap Equity: Russell Midcap Index, Small Cap Equity: Russell 2000 Index, International Equity: MSCI EAFE Index, Emerging Markets: MSCI EM Index, Fixed Income: Bloomberg Aggregate Index, High Yield Fixed Income: ICE BofA US High Yield Index, Short Duration High Yield Fixed Income: ICE BofA High Yield Cash Pay 1-3 Yr BB Index, Real Estate: NCREIF ODCE Equal Weighted Index, Hedge Fund of Funds: HFRI FOF Index, Global Tactical Asset Allocation: 65%MSCI World Equity/35% FTSE World Gov't Bond Index. Past performance is not indicative of future returns.

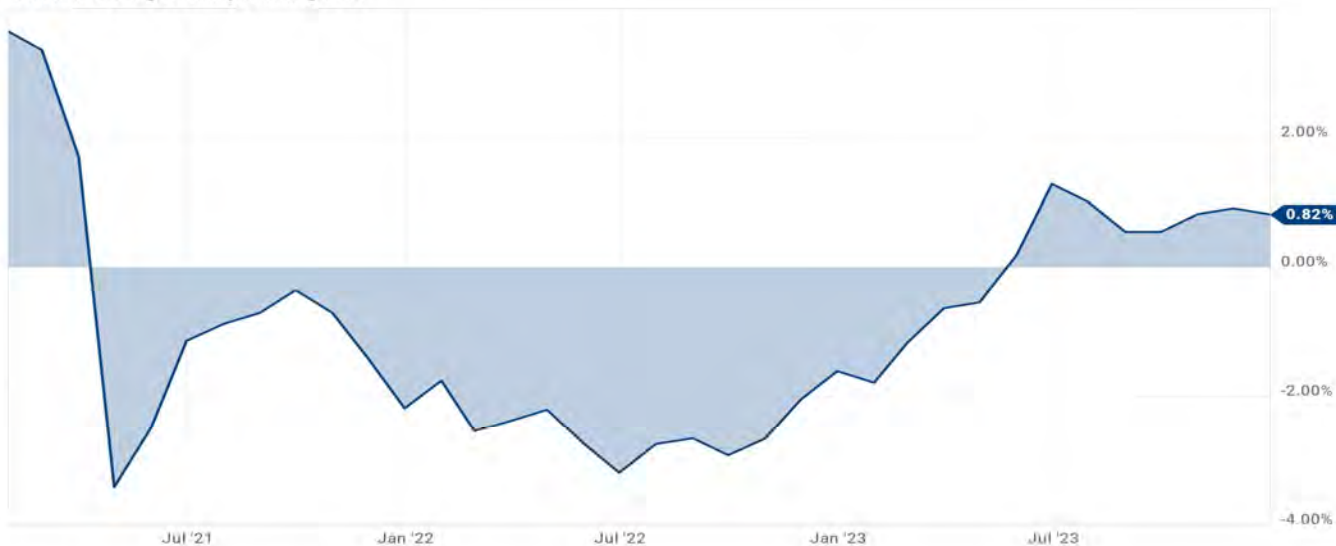
U.S. Economy

U.S. GDP Growth



Sources: U.S. Bureau of Economic Analysis, Federal Reserve, Atlanta Federal Reserve

US Real Average Hourly Earnings YoY



Date Range: 01/31/2021 - 12/31/2023

Source: BLS

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U.S Economic Growth Exceeds Expectations

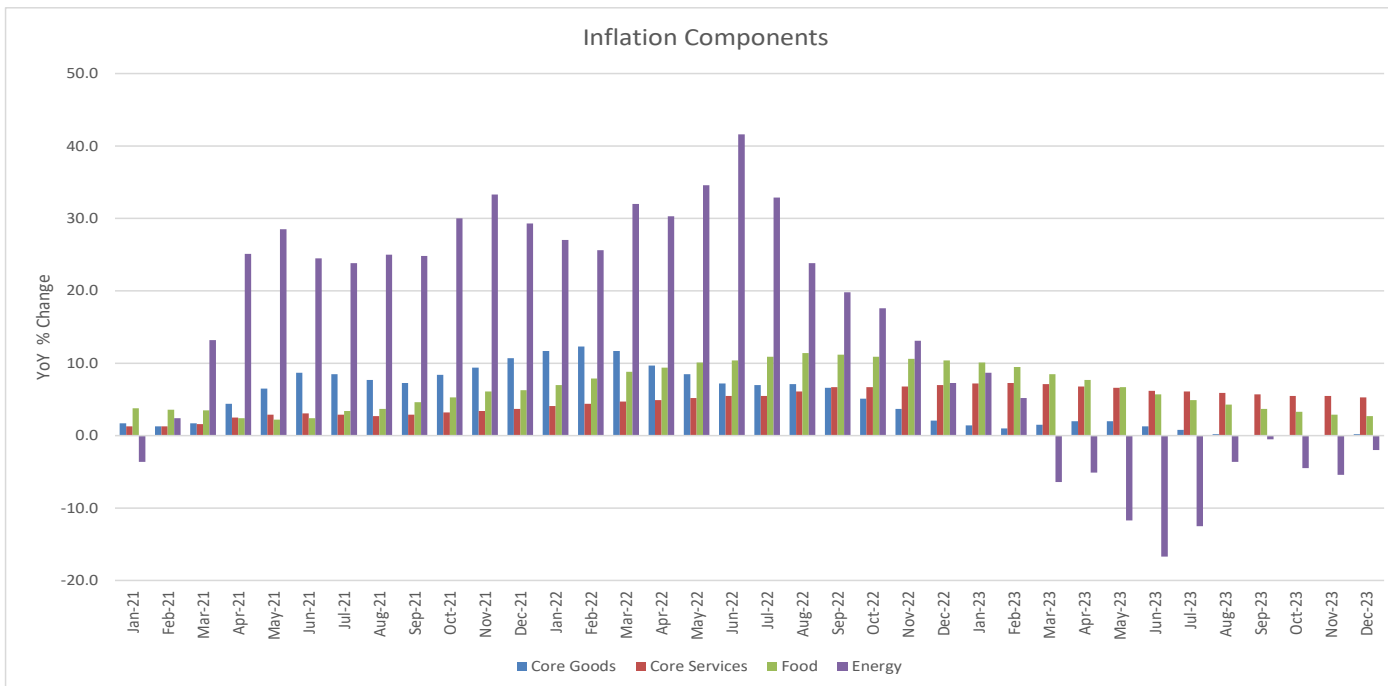
- Despite widespread predictions at the start of 2023 that a recession was imminent, U.S. economic growth has remained positive, with GDP increasing by over 2.0% in each of the first three quarters of 2023.
- Economic growth accelerated in Q3 2023 to 4.9%, the highest level since Q4 2021.
- In their most recent projections, the U.S. Federal Reserve increased projected growth for 2023 from 2.1% to 2.6% and reduced 2024 from 1.5% to 1.4%.
- Rising inflation resulted in 25 consecutive months of negative real wage growth for U.S. workers through early 2023. Beginning in 2Q 2023, higher earnings and slowing inflation have more recently resulted in eight consecutive months of real earnings growth, which has helped fuel stronger than expected economic growth.

U.S. Economy



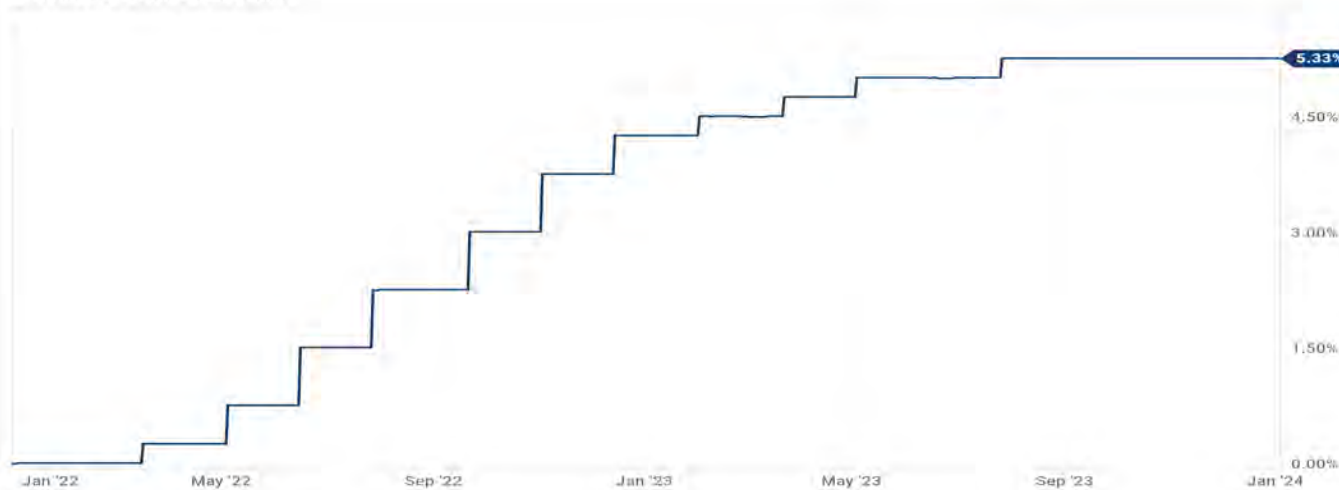
Inflation Continues Downward Trend but Remains Above Target

- Inflation continues to trend downward with year-over-year CPI of 3.4% in December, down from the peak of 9.1% in June 2022.
- Excluding food and energy, core inflation increased by 3.9% vs. a year ago, the lowest level of increase since May 2021.
- Falling energy prices are the primary driver of the dispersion between headline and core inflation.
- Year-over-year core goods inflation has been below 1% for six consecutive months driven by lower used car prices.
- Service inflation remains elevated, driven by the shelter component, which tends to lag real time prices.
- Personal Consumption Expenditures (PCE), the Fed's preferred inflation measure, increased by 3.2% over the last year through November, the lowest level since March of 2021.



U.S. Economy

Effective Federal Funds Rate



Date Range: 12/31/2021 - 01/04/2024
Source: Federal Reserve

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Fed Remains on Hold; Rate Cuts Forecasted for 2024

- The U.S. Federal Reserve raised rates from 0.0% to 5.25% since the beginning of 2022, with the most recent 0.25% increase occurring at the July meeting, leaving the effective Fed Funds Rate at 5.33%, the highest level since 2007.
- The Fed left rates unchanged at each of the final three meetings of 2023.
- Forward guidance from the Fed at the December meeting suggests three 0.25% cuts in 2024.
- The reduction in the size of the Fed's balance sheet that began in 2022 was briefly interrupted in March 2023 when the Fed provided a liquidity injection to banks following three of the four largest bank failures in history.
- By the end of Q2 2023, the increase was reversed by resuming the quantitative tightening program with the balance sheet at the lowest level since March 2021.

US Total Assets Held by All Federal Reserve Banks



Date Range: 10/22/2003 - 01/03/2024
Source: Federal Reserve

Jan 08 2024, 10:44AM EST. Powered by YCHARTS

U.S. Economy

Employment Remains Resilient

- Despite significant increases in the Fed Funds rate, various measures suggest the labor market remains strong.
- Weekly unemployment claims averaged 214,000 in Q4 2023, compared to 226,000 in Q3 2023 and an average of 225,000 for calendar year 2023.
- The U.S. labor market added 216,000 jobs in December. In total, 2.7 million jobs were added in 2023 while the unemployment rate increased from 3.5% at the start of the year to 3.7% at year end.
- U.S. job openings declined to the lowest level since May 2021, but remain elevated by historical standards at 8.8 million. There are approximately 1.4 openings for every unemployed person.

● US Initial Claims for Unemployment Insurance



● US Unemployment Rate



● US Job Openings: Total Nonfarm



Date Range: 12/31/2018 - 12/31/2023

Sources: DoL, BLS

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U.S. Equity Market

Sector	Index	4Q23	YTD	2022	2021	2020	2019	2018	2017	1-Year	3-Year	5-Year	10-Year
Large Cap	S&P 500	11.7%	26.3%	-18.1%	28.7%	18.4%	31.5%	-4.4%	21.8%	26.3%	10.0%	15.7%	12.0%
	Russell 1000	12.0%	26.5%	-19.1%	26.4%	21.0%	31.4%	-4.8%	21.7%	26.5%	9.0%	15.5%	11.8%
	Russell 1000 Value	9.5%	11.4%	-7.6%	25.1%	2.8%	26.5%	-8.3%	13.6%	11.4%	8.8%	10.9%	8.4%
	Russell 1000 Growth	14.2%	42.7%	-29.1%	27.6%	38.5%	36.4%	-1.5%	30.2%	42.7%	8.9%	19.5%	14.9%
Mid Cap	Russell Mid-Cap	12.8%	17.2%	-17.3%	22.6%	17.1%	30.5%	-9.1%	18.5%	17.2%	5.9%	12.7%	9.4%
	Russell Mid-Cap Value	12.1%	12.7%	-12.1%	28.3%	5.0%	27.0%	-12.3%	13.3%	12.7%	8.3%	11.1%	8.2%
	Russell Mid-Cap Growth	14.5%	25.9%	-26.7%	12.7%	35.6%	35.5%	-4.8%	25.3%	25.9%	1.3%	13.8%	10.6%
Small Cap	Russell 2000	14.0%	16.9%	-20.5%	14.8%	19.9%	25.5%	-11.0%	14.6%	16.9%	2.2%	9.9%	7.1%
	Russell 2000 Value	15.2%	14.6%	-14.5%	28.2%	4.6%	22.4%	-12.9%	7.8%	14.6%	7.9%	10.0%	6.7%
	Russell 2000 Growth	12.7%	18.6%	-26.4%	2.8%	34.6%	28.4%	-9.3%	22.1%	18.6%	-3.5%	9.2%	7.1%
Total Market	Wilshire 5000	12.1%	26.1%	-19.0%	26.7%	20.8%	31.0%	-5.3%	21.0%	26.1%	9.0%	15.4%	11.7%
	Russell 3000	12.1%	25.9%	-19.2%	25.6%	20.9%	31.0%	-5.2%	21.1%	25.9%	8.5%	15.1%	11.5%

Major Index Total Return as of December 31, 2023

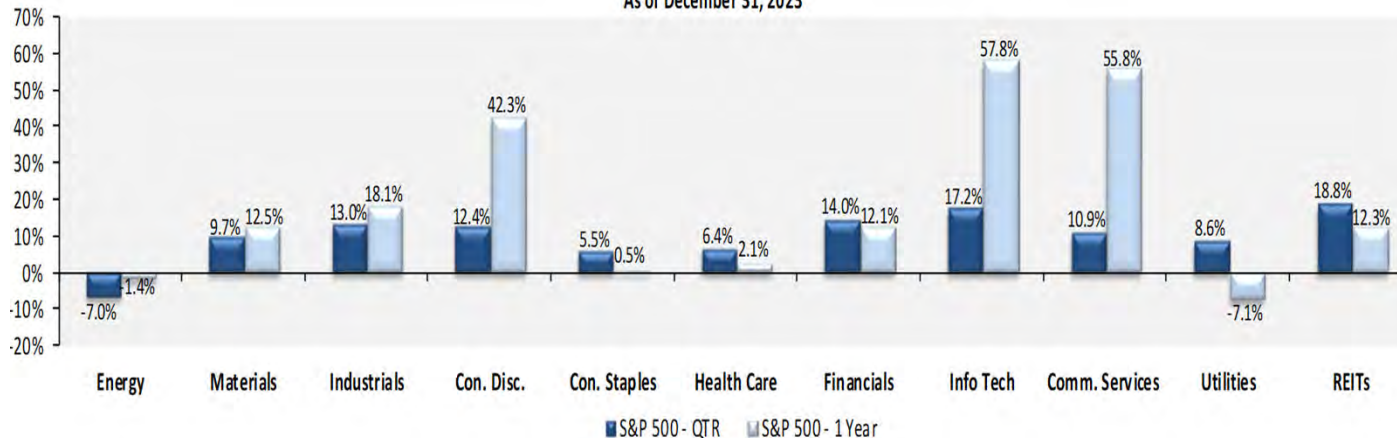
Asset Class	Name	2023 YTD	% off Low	% Off All Time High
U.S. Large Cap	S&P 500	26.3%	36.1%	-0.3%
U.S. Mid Cap	Russell Midcap	17.2%	28.1%	-5.3%
U.S. Smid Cap	Russell 2500	17.4%	26.6%	-9.1%
U.S. Small Cap	Russell 2000	16.9%	24.7%	-14.3%
International Large Cap	MSCI EAFE	18.2%	39.9%	-1.3%
International Small Cap	MSCI EAFE Small Cap (gross)	13.7%	34.0%	-15.0%
Emerging Markets	MSCI Emerging Markets	9.8%	25.2%	-23.7%
Global Equity	MSCI World (gross)	24.4%	37.3%	-0.3%

- The S&P 500 concluded 2023 with a nine-week winning streak, matching a feat last achieved two decades ago and finishing just below its all-time high.
- Additionally, the late 2023 interest rate reversal helped significantly broaden market breadth, prompting a shift toward previously lagging sectors in the equity market. Starting in early November, small-cap stocks outpaced their larger counterparts and the equal-weight S&P 500 index outperformed the cap-weighted version.
- While the "Magnificent Seven" significantly influenced the S&P 500 returns due to their substantial index weighting, it is important to highlight that in 2023, 322 stocks within the S&P 500 registered positive gains.

U.S. Equity Market

S&P 500 Sector Performance

As of December 31, 2023

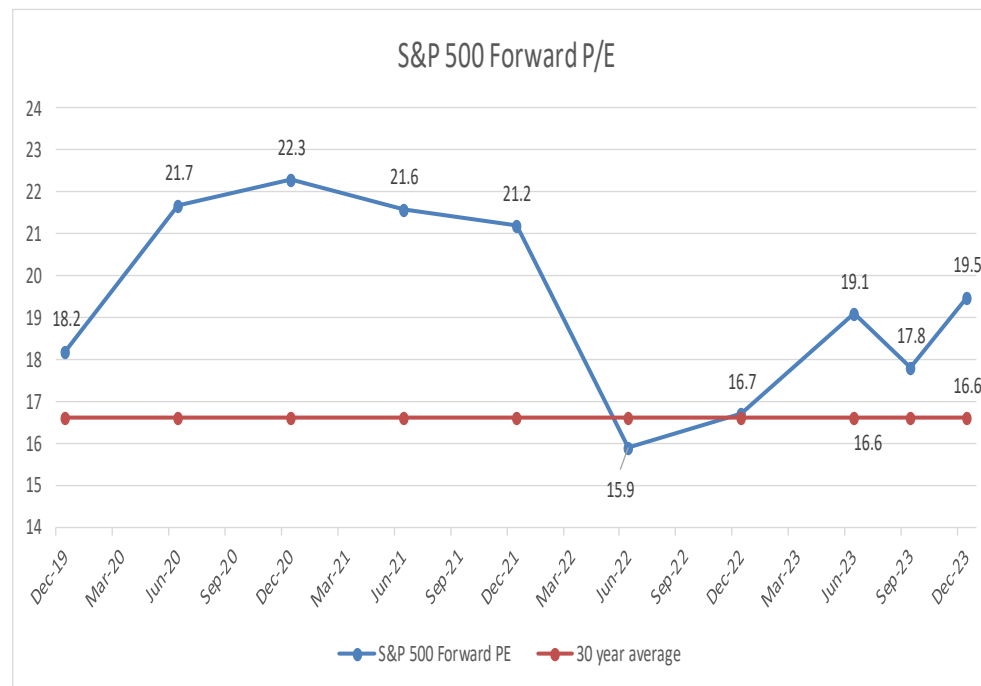


Mag 7 Propels Tech, Comms & Consumer; Defensive Sectors Lag Behind

- Technology (+57.8%), communications (+55.8%), and consumer discretionary (+42.3%) significantly outperformed in 2023, driven largely by the robust gains and substantial weighting of the "Magnificent Seven." The Bloomberg Magnificent Seven Index achieved an impressive 107% return in 2023.
- Defensive sectors such as utilities (-7.1%), staples (+0.5%), and healthcare (+2.1%) lagged due to diminishing appeal in "high-dividend" stocks amidst money markets yielding over 5%. The underperformance is attributed to the heightened sensitivity of these sectors to short-term Federal Funds rates.
- In 2023, energy declined -1.4%, reversing its standout +59% gain in 2022, which made it the sole S&P 500 sector to register growth that year. Despite this setback, energy ended the two-year period with a gain of over 50%.

Earnings Growth Streak?

- The S&P 500 is expected to post 1.4% year-over-year earnings growth for Q4 2023. This would mark its second consecutive quarter of year-over-year earnings growth.
- The S&P 500's forward P/E ratio rose last quarter due to increased stock prices and modest growth in earnings expectations. Currently, it sits at 19.5x forward earnings, surpassing its 30-year average.



Source: J.P. Morgan Asset Management

U.S. Equity Market

2023's Standouts: The Magnificent Seven

- The Magnificent Seven—Alphabet (Google), Amazon, Apple, Meta (formerly Facebook), Microsoft, NVIDIA, and Tesla—garnered praise from the financial press for their remarkable 105% average total return last year. As a cohort, they constituted over 60% of the S&P 500's 26.3% total return in 2023, offsetting the previous year's -45% average loss for this closely monitored group of stocks.
- Despite the positive trend in 2023, Amazon and Tesla, remain in the red since year-end 2021. Examining returns over two years, the Magnificent Seven has a relatively subdued impact. Over this period, the S&P 500 achieved a 3.42% total return, with the Magnificent Seven contributing 2.05%, resulting in a 1.37% gain for the index without their influence.

Magnificent Seven-Led Rally Cooled in Second Half of 2023 Ratio Between Mag 7 and S&P 500 Index Has Stabilized Since June



Source: Bloomberg, DoubleLine

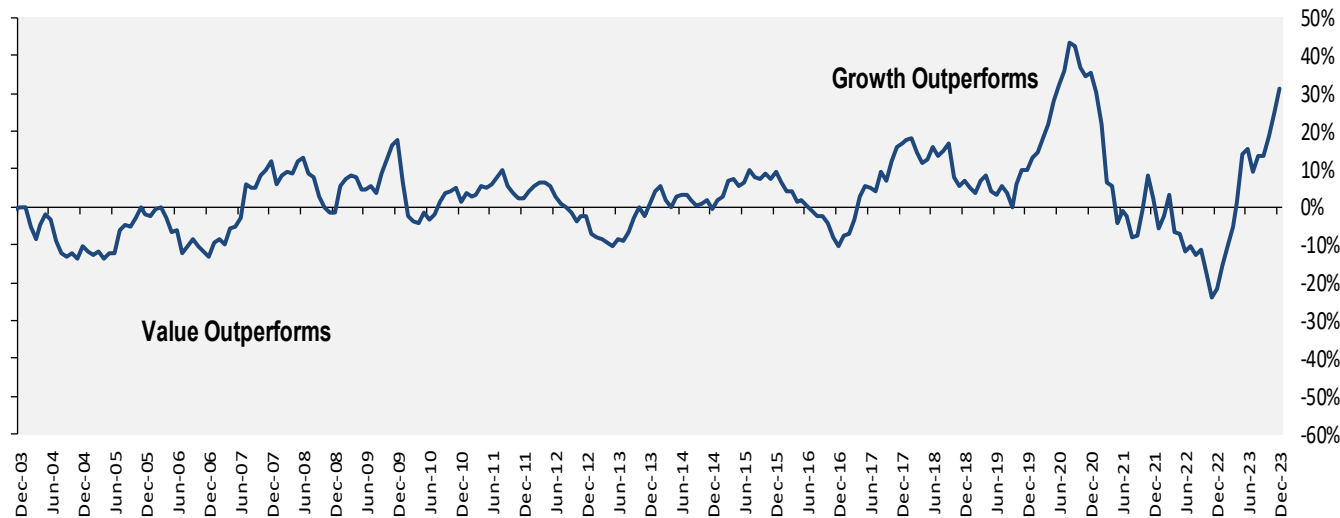
Securities discussed are not recommendations and are presented as examples of issue selection or portfolio management processes. They have been picked for comparison or illustration purposes only. No security presented within is either offered for sale or purchase. Please see the Appendix for index definitions. Magnificent Seven refers to Apple, Microsoft, Alphabet, Amazon, Nvidia, Tesla and Meta. You cannot invest directly in an index.

Perceived AI Vectors: Mega-Caps

- Artificial Intelligence's (AI) potential steered asset flows primarily toward the Magnificent Seven. The market anticipated these companies to be the primary beneficiaries of substantial capital allocated for AI initiatives.
- Additionally, these mega-cap stocks capitalized on pandemic-induced low interest rates by securing long-term fixed-rate bonds. As interest rates rose in 2023, this astute move played a pivotal role in fortifying cash reserves, reflecting positively on the bottom line of the income statement.
- While a concentrated percentage (28%) of stocks outperformed the S&P 500 this year, it extended beyond seven stocks. Despite media focus on the Magnificent Seven, a broader set of 141 companies achieved this feat within the S&P 500.

U.S. Equity Market

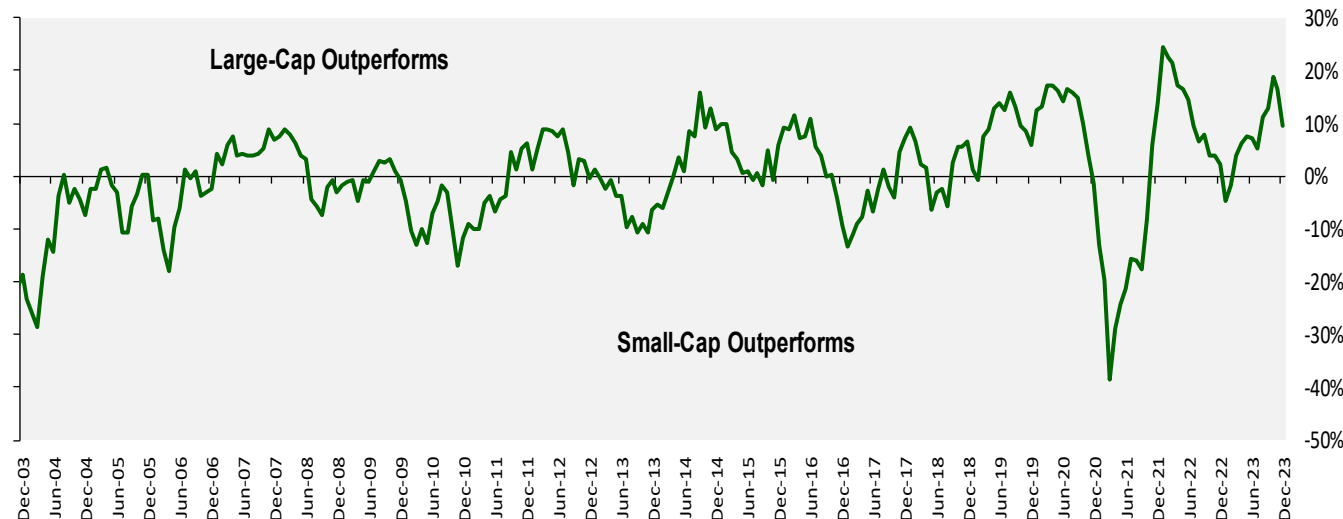
Russell 1000 Growth vs. Russell 1000 Value
Rolling One-Year Returns



Yearly Reversals: Growth vs. Value Flip-Flop

- The Russell 1000 Growth index made a strong comeback, outperforming the Russell Value index by over 31% in 2023, the second-highest margin since its 35% outperformance in 2020. This reversal follows 2022, where the value shined, outperforming growth by over 21%, its second-best performance since 1978. The growth to value ratio (RLG / RLV) hit a low in January 2023, before expanding significantly through mid-November, almost matching the widest spreads recorded in August 2020 and December 2021.

S&P 500 vs. Russell 2000
Rolling One-Year Returns

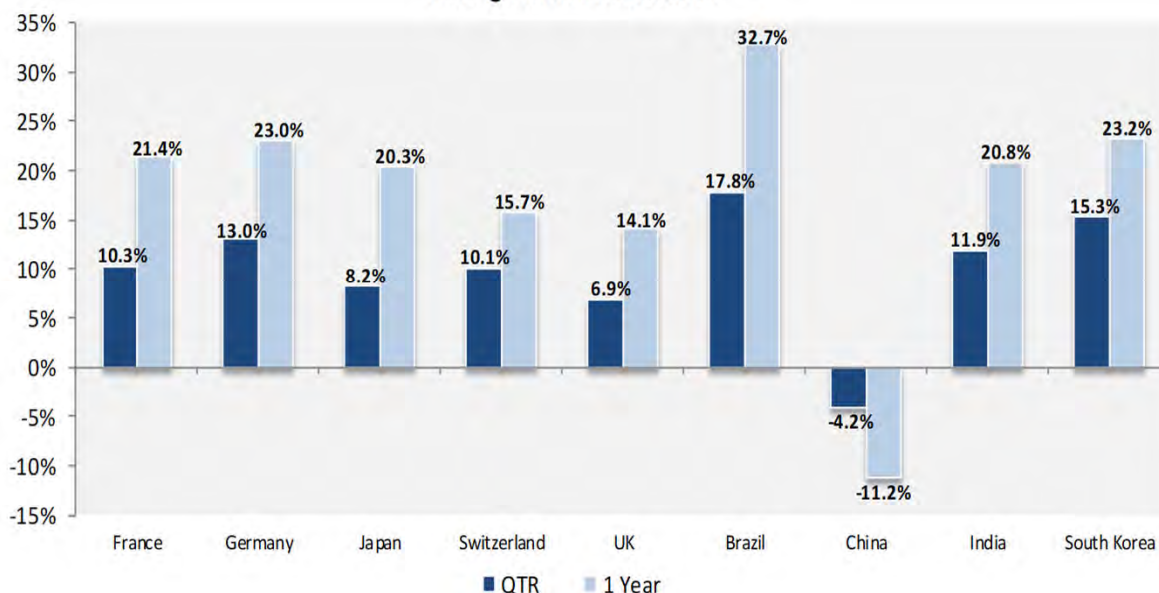


- Despite the Russell 2000/small-cap index rebounding from bear market status by the close of 2023, it remains significantly below its November 2021 peak. The Russell 2000 experienced its current cycle low over 18 months ago, marking the third-longest period without recovering the previous peak on record.

International Equity Market

Sector	Index	4Q23	YTD	2022	2021	2020	2019	2018	1-Year	3-Year	5-Year	10-Year
Global	MSCIAC World Index (net)	11.0%	22.2%	-18.4%	18.5%	16.3%	26.6%	-9.4%	22.2%	5.7%	11.7%	7.9%
	MSCI World Small Cap (net)	12.5%	15.8%	-18.8%	15.8%	16.0%	26.2%	-13.9%	15.8%	2.9%	9.8%	6.8%
	MSCI World ex US (net)	10.5%	17.9%	-14.3%	12.6%	7.6%	22.5%	-14.1%	17.9%	4.4%	8.4%	4.3%
Developed ex US	MSCI World ex US Small Cap (net)	10.6%	12.6%	-20.6%	11.1%	12.8%	25.4%	-18.1%	12.6%	-0.2%	7.0%	4.6%
	MSCIEAFE (net)	10.4%	18.2%	-14.5%	11.3%	7.8%	22.0%	-13.8%	18.2%	4.0%	8.2%	4.3%
	MSCIEAFE Value (net)	8.2%	19.0%	-5.6%	10.9%	-2.6%	16.1%	-14.8%	19.0%	7.6%	7.1%	3.2%
	MSCIEAFE Growth (net)	12.7%	17.6%	-22.9%	11.3%	18.3%	27.9%	-12.8%	17.6%	0.3%	8.8%	5.1%
Emerging Markets	MSCIEAFE Small Cap (net)	11.1%	13.2%	-21.4%	10.1%	12.3%	25.0%	-17.9%	13.2%	-0.7%	6.6%	4.8%
	MSCI Emerging Markets (net)	7.9%	9.8%	-20.1%	-2.5%	18.3%	18.4%	-14.6%	9.8%	-5.1%	3.7%	2.7%

Foreign Markets Returns



- Foreign stocks gained momentum in Q4 2023 as subdued inflation figures in both Europe and the U.S. fueled optimism, suggesting that not only have interest rates likely peaked, but there is anticipation of potential cuts in 2024.
- The Tokyo Stock Exchange's recent corporate governance reforms have spurred listed companies to demonstrate efficient capital utilization under the threat of delisting. This marks a notable shift, as Japan's corporate governance appears to be making progress after being perceived as a "value trap" for years, prompting a positive response in Japanese stocks.
- Doubts continue to linger over the Chinese government's ability to boost growth in the second-largest global economy. The persistent real estate crisis, regulatory uncertainties, and a lack of new foreign direct investment have intensified negative sentiment toward Chinese equities.

International Equity Market



Dollar's Dovish Descent

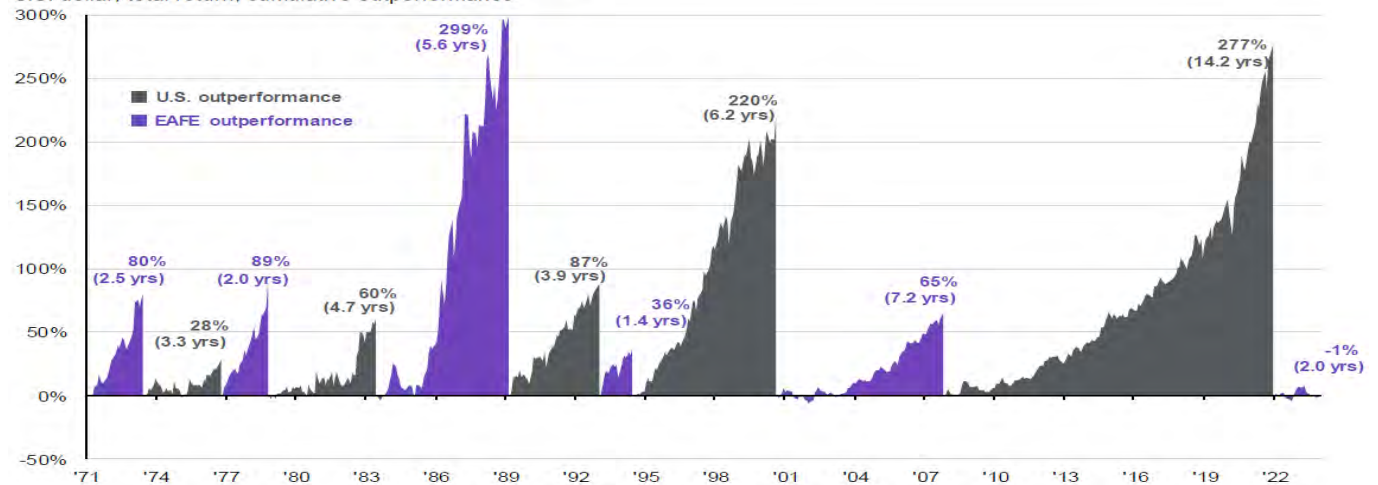
- After a steady rise against other currencies in 3Q 2023, the U.S. Dollar encountered a setback in Q4 due to dovish remarks from multiple Fed officials.
- November saw a prominent 3.0% drop in the U.S. Dollar Index (DXY), wiping out all yearly gains and marking its most substantial monthly decline in a year. The Fed is currently perceived as more dovish in comparison to other major central banks.

Two-Year Stalemate: U.S. and Developed International Markets

- U.S. equity markets outperformed international markets by 277% over 14.2 years, marking the longest duration of outperformance in 50 years; however, this trend may have ended by the close of 2021.
- Over the last two years, U.S. and international developed markets have exhibited a sawtooth pattern, with no clear trend and a minimal spread between them.

MSCI EAFE and MSCI USA relative performance

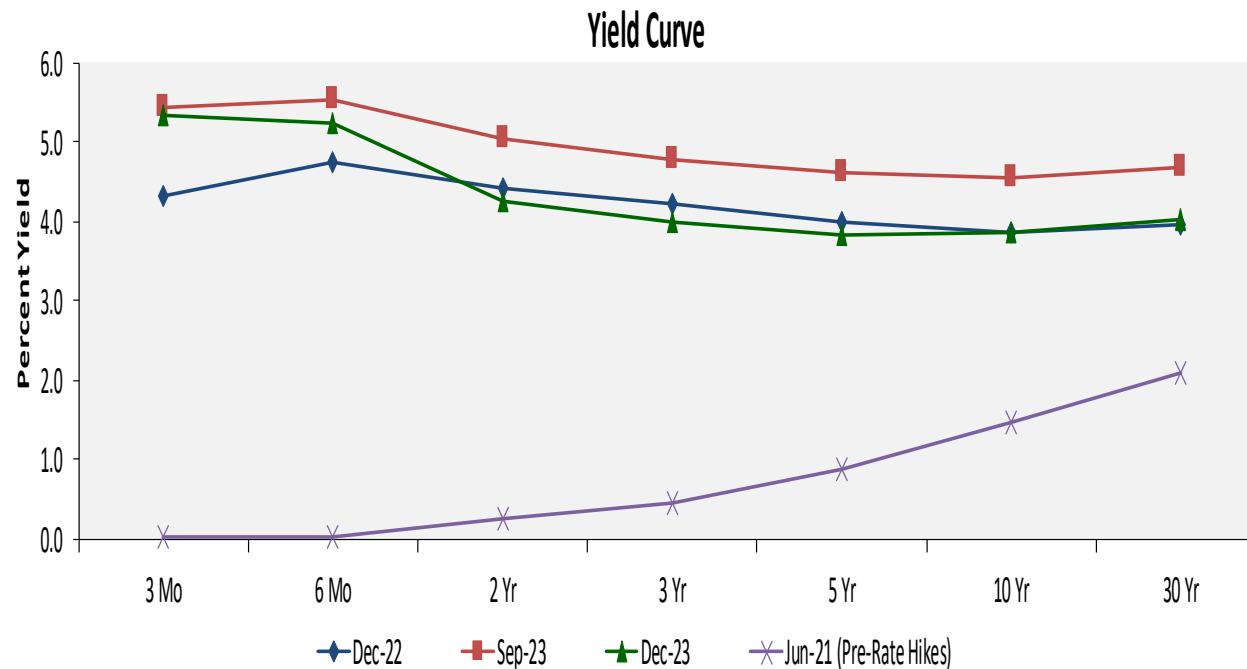
U.S. dollar, total return, cumulative outperformance



Source: J.P. Morgan Asset Management

Bond Market

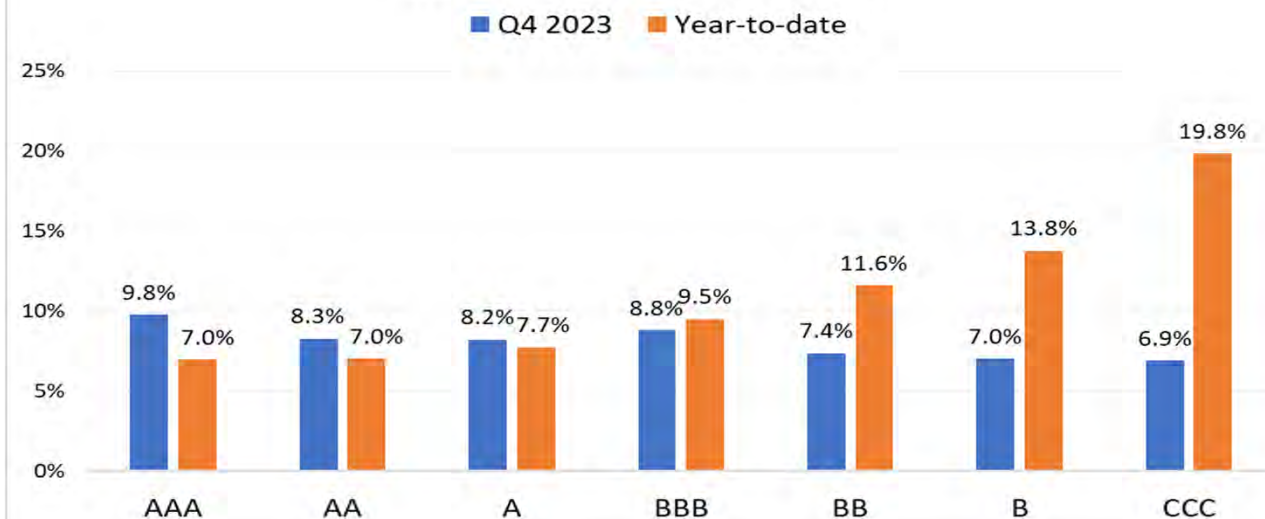
Index	Duration (years)	Yield	4Q23	YTD	2022	2021	2020	2019	2018	1-Year	3-Year	5-Year	10-Year
Bloomberg Aggregate	6.3	4.53%	6.8%	5.5%	-13.0%	-1.5%	7.5%	8.7%	0.0%	5.5%	-3.3%	1.1%	1.8%
Bloomberg Govt/Credit	6.6	4.45%	6.6%	5.7%	-13.6%	-1.7%	8.9%	9.7%	-0.4%	5.7%	-3.5%	1.4%	2.0%
Bloomberg Int Agg	4.5	4.49%	5.5%	5.2%	-9.5%	-1.3%	5.6%	6.7%	0.9%	5.2%	-2.1%	1.1%	1.6%
Bloomberg Int Govt/Credit	3.9	4.37%	4.6%	5.2%	-8.2%	-1.4%	6.4%	6.8%	0.9%	5.2%	-1.6%	1.6%	1.7%
Bloomberg U.S. Corporate	7.3	5.06%	8.5%	8.5%	-15.8%	-1.0%	9.9%	14.5%	-2.5%	8.5%	-3.3%	2.6%	3.0%
Bloomberg HY Ba/B 2% IC	3.8	6.90%	7.2%	12.6%	-10.6%	4.6%	7.7%	15.2%	-1.9%	12.6%	1.7%	5.5%	4.6%
ICE BofA 1-3 Yrs BB US Cash Pay HY	1.8	6.21%	4.0%	8.9%	-3.1%	3.2%	5.4%	8.7%	1.3%	8.9%	2.9%	4.5%	3.9%
Bloomberg Mortgage	5.7	4.68%	7.5%	5.0%	-11.8%	-1.0%	3.9%	6.4%	1.0%	5.0%	-2.9%	0.3%	1.4%
Bloomberg Treasury	6.3	4.08%	5.7%	4.1%	-12.5%	-2.3%	8.0%	6.9%	0.9%	4.1%	-3.8%	0.5%	1.3%
Bloomberg US TIPS	6.7	4.24%	4.7%	3.9%	-11.8%	6.0%	11.0%	8.4%	-1.3%	3.9%	-1.0%	3.2%	2.4%
BofA ML 91 day T-Bills	0.2	5.28%	1.4%	5.2%	1.5%	0.0%	0.7%	2.3%	1.9%	5.2%	2.2%	1.9%	1.3%



- The U.S. treasury yield curve shifted downward in Q4 2023 with treasury yields falling approximately 75 bps across the curve.
- The yield curve remains heavily inverted, reflecting a view that future economic growth and/or inflation will be lower and the Federal Reserve may begin cutting short-term rates in upcoming years.
- Returns for the U.S. bond market were positive in Q4 2023. The shift down in yields led to a large outperformance in long duration bonds in Q4, bringing year-to-date performance well into positive territory. Lower quality, higher yielding credit generally led markets for calendar year 2023.

Bond Market

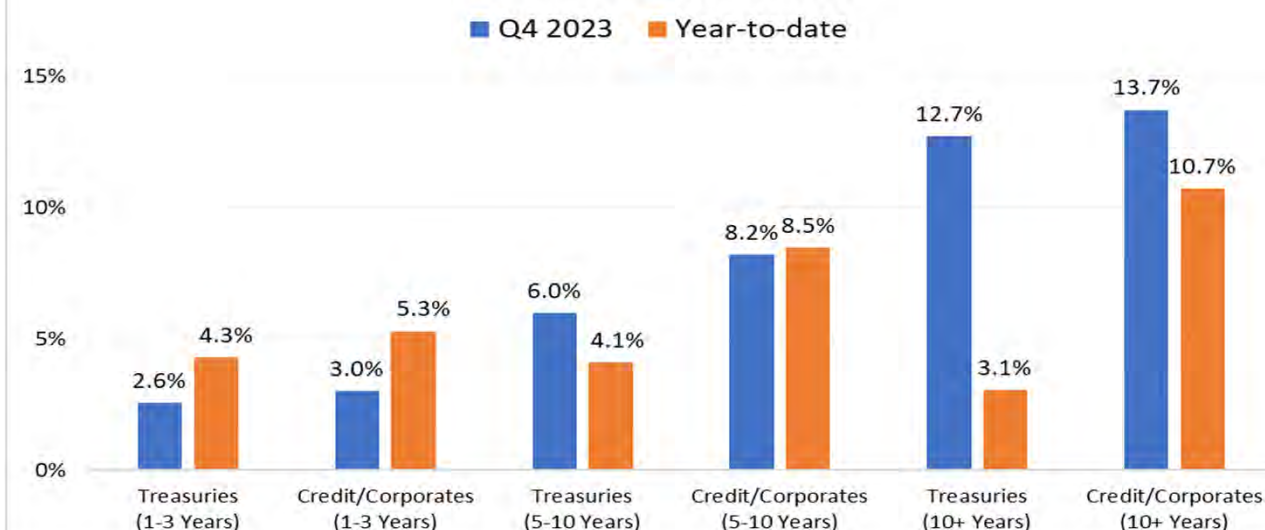
Returns by Credit Rating



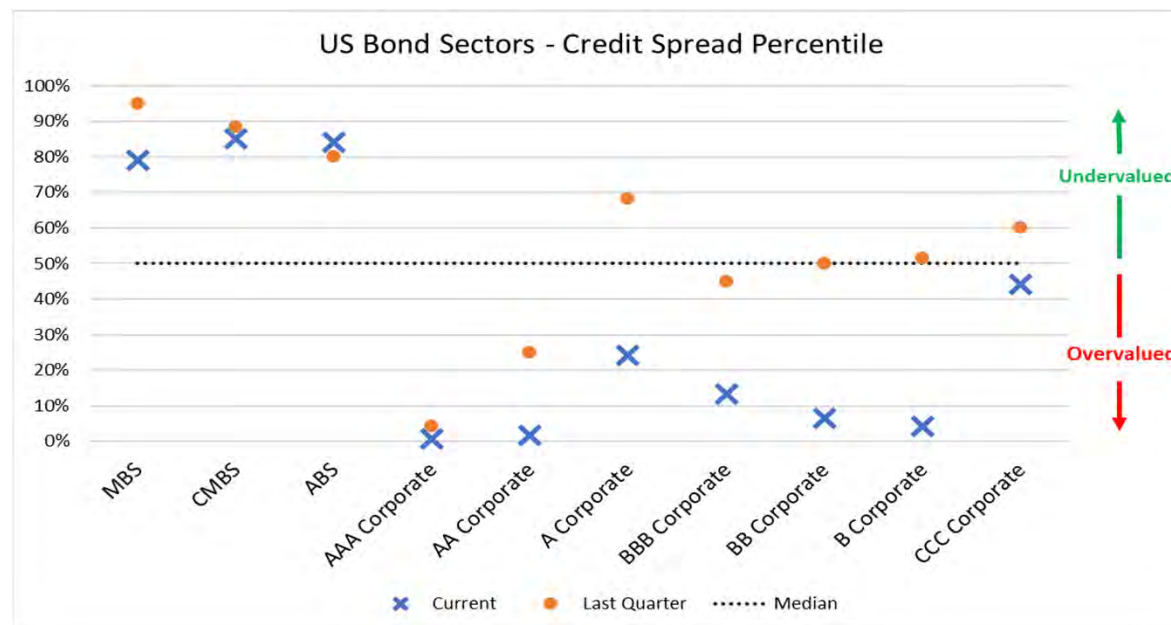
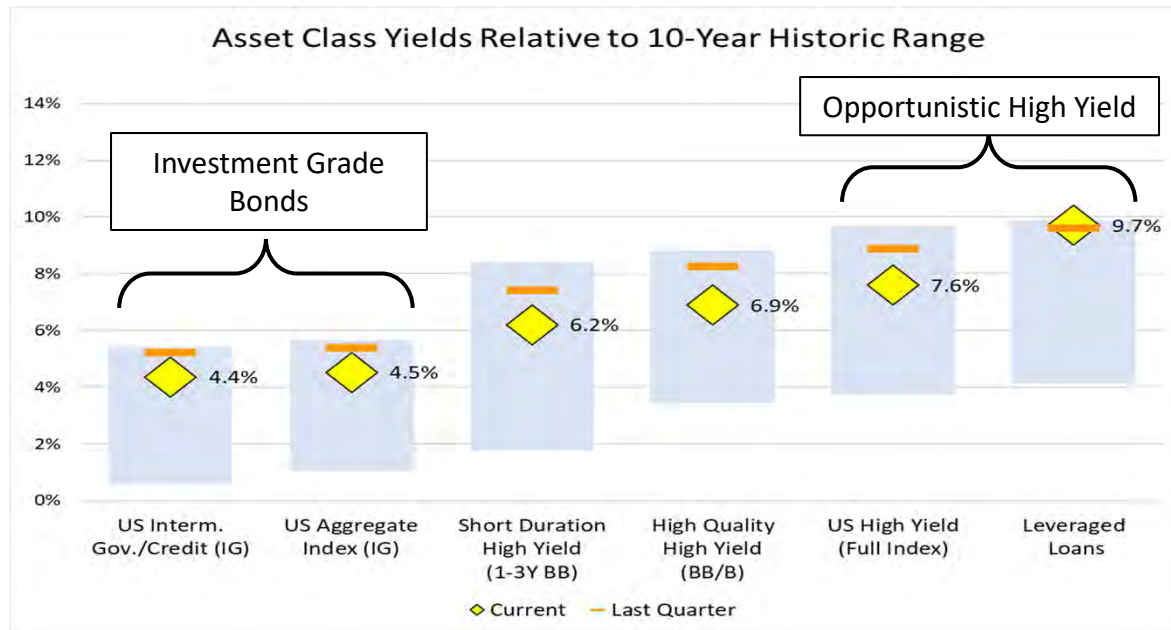
Falling interest rates in Q4 2023 led to outperformance in long duration bonds.

- The decline in treasury yields was the largest driver of bond returns in Q4 2023, with tightening credit spread adding additional gains.
- Longer maturity bonds experienced the largest outperformance in Q4 2023, bringing their year-to-date returns well into positive territory.
- High yield bonds saw gains of ~7% in Q4 2023 due to a combination of falling interest rates and credit spread compression. Investment grade bonds outperformed high yield bonds due to longer their duration.
- For calendar year 2023, lower quality credit outperformed higher quality credit due to higher levels of interest income and relatively low levels of defaults.
- The large decline in interest rates in Q4 caused longer maturity/duration credit to outperform shorter maturity/duration credit in 2023. Shorter duration credit outperformed longer duration credit for the majority of 2023 with significantly less volatility.

Returns by Maturity



Bond Market



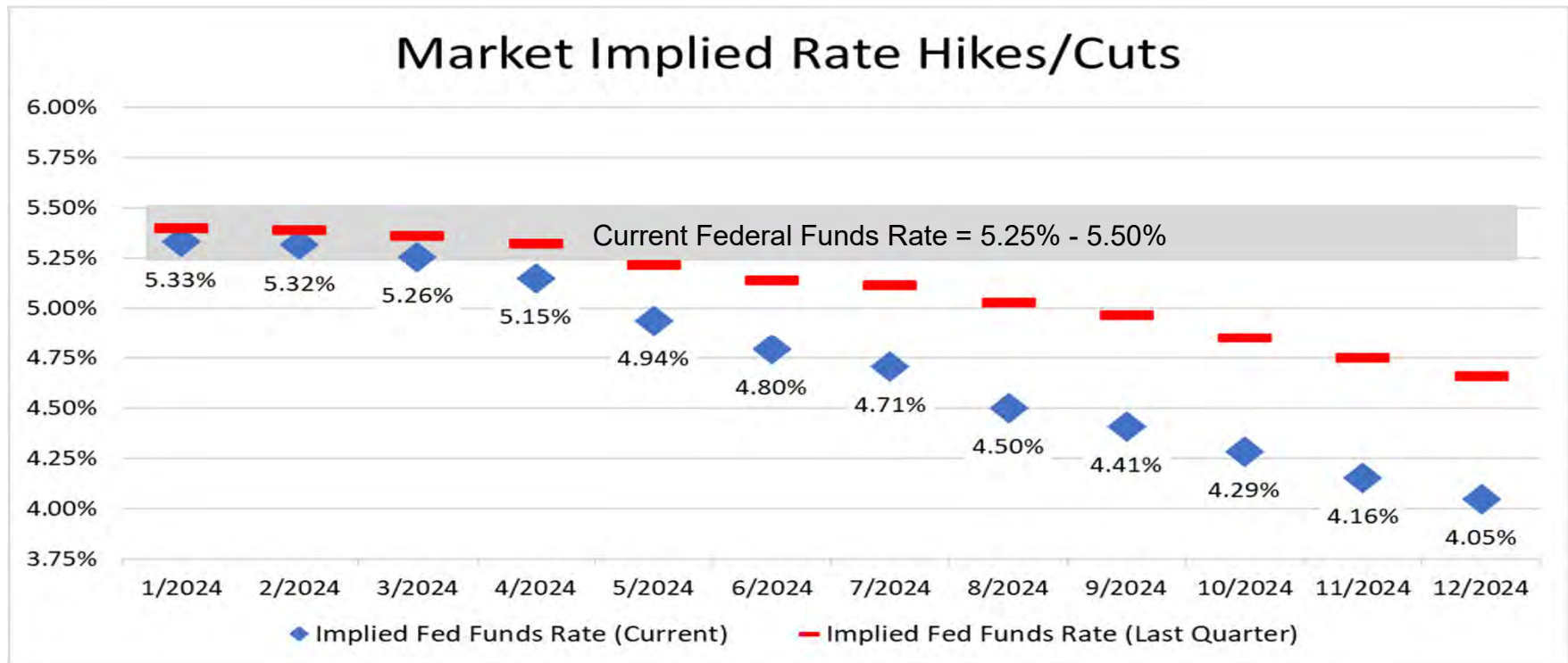
Bond Yields

- Due to a combination of falling treasury rates and spread tightening, yields across bond sectors moved lower in Q4 2023.
- Bonds across maturities and credit quality have rallied in 2023, lowering yields off their recent highs.
- Investment grade bonds are currently yielding 4.5-5.5% while yields for high yield range between 6-8% with CCC-rated bonds yielding ~13%.
- Leveraged Loans offer a current yield of ~10%; however, this is largely driven by the current 5.4% SOFR rate. Future rate cuts would reduce this yield as SOFR should mirror the Fed Funds rate.

Credit Spreads/Valuations

- Spreads on corporate bonds tightened in Q4 2023. High yield bonds experienced the largest spread compression during the quarter as sentiment appears to have shifted materially with positive economic data and increased expectations of future rate cuts by the Fed.
- Most corporate bond spreads are tight relative to their 10-year histories.
- Spreads in structured credit (MBS, CMBS, ABS) remain elevated. MBS are trading at the widest spreads experienced in the past decade.

Bond Market

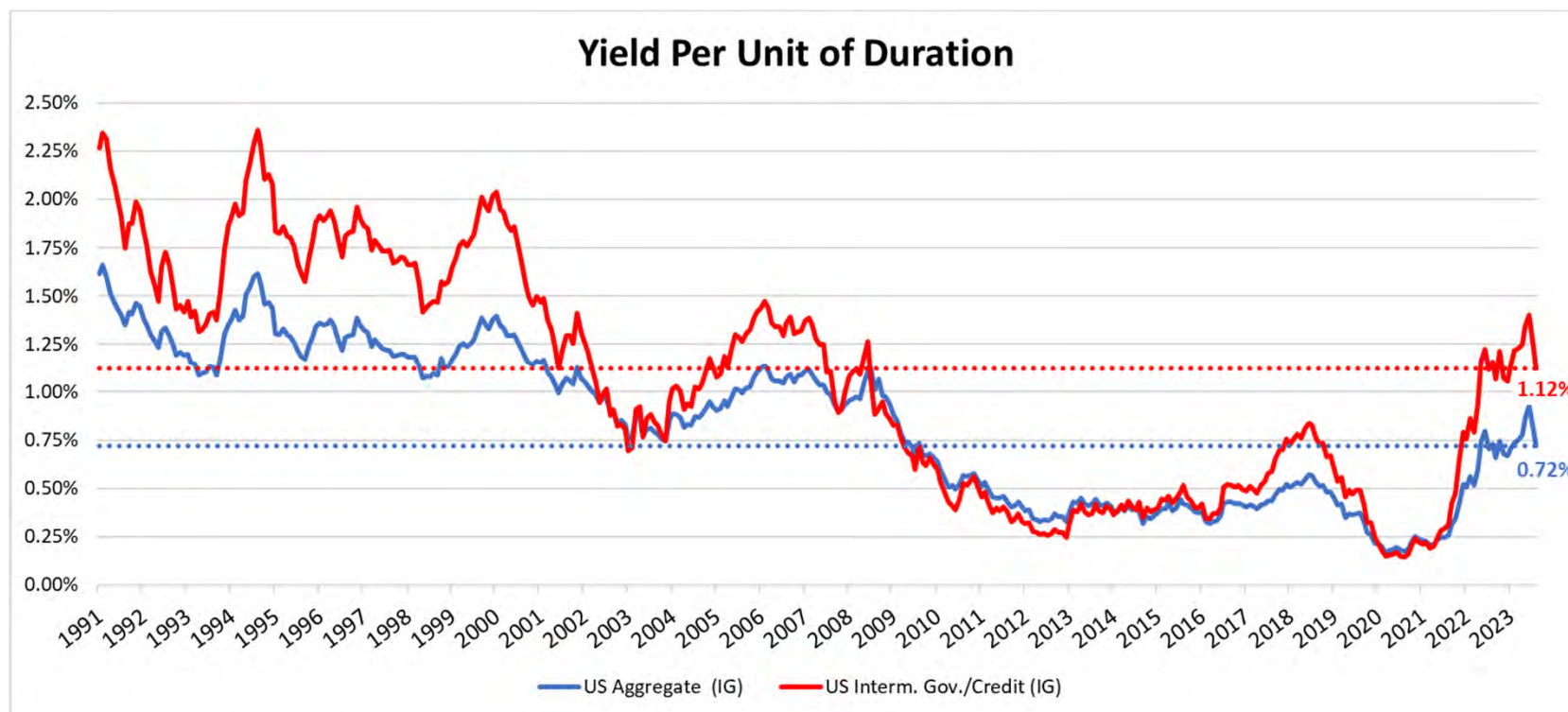


As of 1/8/23

- The FOMC held the Fed Funds rate at its current level for both their October and December meetings. The current target Federal Funds rate remains at 5.25-5.50%, up from 4.25-4.50% in Q4 2022.
- Pricing in the Fed Funds rate futures market implies an expectation that the Federal Reserve will hold rates constant through Q1 2024, with the expectation of a 50 bps cut by the end of Q2 2024 and a 100 bps cut from the current level by the end of Q3 2024.
- The market implied Fed Funds rate at the end of Q3 2024 would bring the Fed Funds target rate to 4.25-4.50%, back to the level where it started 2023.
- Although the Federal Reserve has not deliberately signaled a plan to cut rates in the near term, the December 2023 Federal Reserve dot plot, which represents each policymaker's projection of the future path of interest rates, shows the majority of individual Fed members are expecting the Fed Funds rate to be between 4.25% and 5% by the end of 2024, with the median expectation placing the Fed Funds rate between 4.5%-4.75%. Based on the dot plot, only 2 out of 19 policymakers expect the Fed Funds rate to stay at its current level by the end of 2024.

Bond Market

Investment Grade Investors Are Now Compensated For Duration Risk



- Investment grade bond returns were susceptible to a rise in interest rates for most of the past decade. With the recent surge higher in bond yields, investment grade bond investors are now being adequately compensated for duration risk.
- Interest rates can now move ~70 bps higher before core bond investors (US Aggregate Index) start to realize negative returns on their portfolio in the near-term while intermediate investment grade investors can withstand a ~110 bps rise in interest rates before realizing losses on their portfolio.
- Given yields are equal for the US Intermediate Gov./Credit Index and the US Aggregate Index, intermediate investment grade bonds (US Interm. Gov./Credit) are seemingly better positioned to limit downside risk in the near-term while core bonds (US Aggregate) can provide more upside if interest rates fall but have less protection in the event interest rates continue to rise.

Bond Market

Interest Rate Sensitivity

12 Month Holding Period - Annualized Returns as of 12/31/2023							
Yield Change (bps)	10 Year Treasury	Bloomberg Aggregate	Bloomberg Int Govt/Credit	ICE BofA Gov/Corp Master	ICE BofA 1-3 yr Gov/Corp	Defensive ICE BofA US HY BB/B ND	Short Duration ICE BofA US HY BB/B 1-3 yr
-300	31.06	26.04	16.96	27.93	10.21	17.72	11.56
-250	26.06	22.10	14.74	23.48	9.25	15.96	10.91
-200	21.25	18.30	12.56	19.24	8.29	14.18	10.22
-150	16.63	14.64	10.44	15.23	7.35	12.38	9.49
-100	12.19	11.13	8.36	11.43	6.42	10.57	8.72
-75	10.05	9.42	7.35	9.62	5.95	9.65	8.33
-50	7.95	7.76	6.34	7.86	5.49	8.73	7.92
-25	5.89	6.13	5.35	6.15	5.03	7.80	7.50
0	3.89	4.53	4.37	4.50	4.58	6.87	7.08
25	1.93	2.97	3.40	2.91	4.12	5.93	6.64
50	0.01	1.45	2.45	1.37	3.67	4.99	6.20
75	-1.85	-0.04	1.51	-0.12	3.22	4.04	5.74
100	-3.67	-1.49	0.58	-1.55	2.78	3.09	5.28
150	-7.17	-4.29	-1.23	-4.25	1.89	1.17	4.33
200	-10.48	-6.94	-3.00	-6.72	1.01	-0.76	3.33
250	-13.60	-9.45	-4.71	-8.98	0.15	-2.72	2.30
300	-16.53	-11.82	-6.38	-11.01	-0.71	-4.70	1.23
Duration	7.93	6.31	3.89	6.49	1.82	3.74	1.72
Convexity	0.75	0.57	0.21	0.88	0.04	-0.08	-0.15

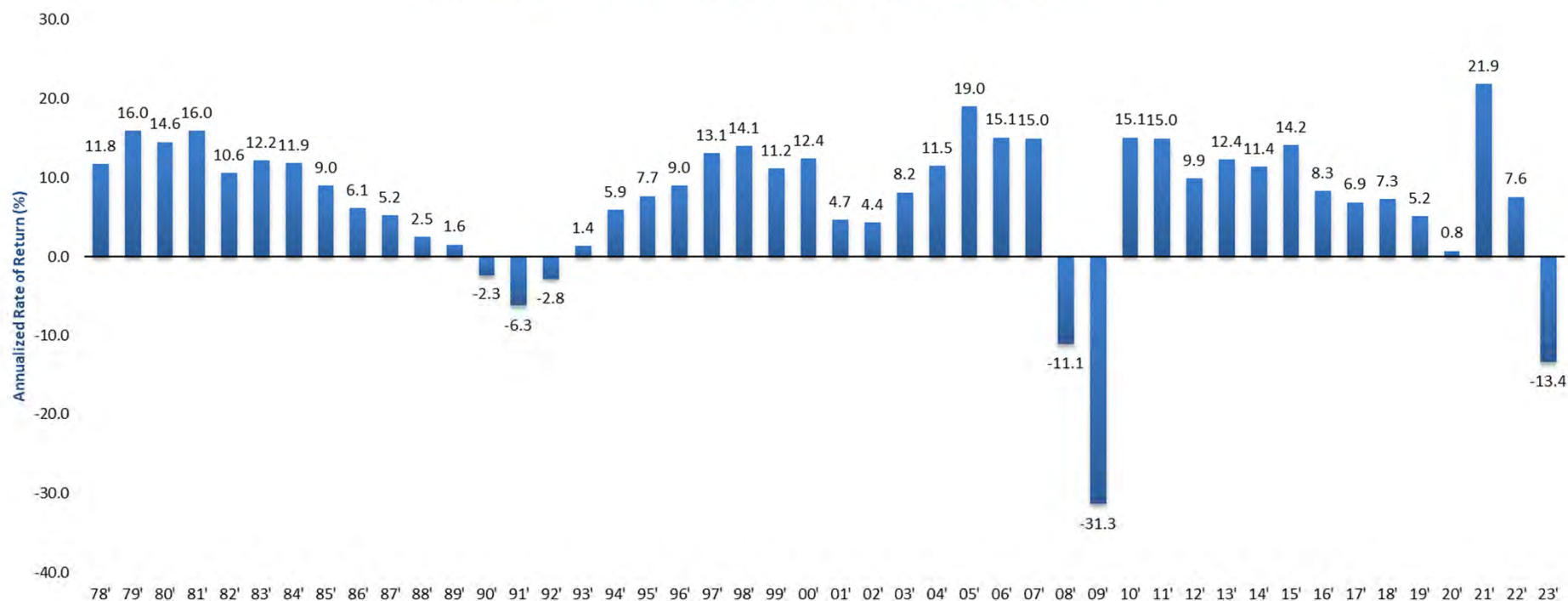
FOR ILLUSTRATIVE PURPOSES ONLY: For each index the current yield to worst as of 12/31/2023 was used as the base case annualized return. The annualized return sensitivity to a uniform increase or decrease in the yield curve was calculated by taking the index's Option-Adjusted Duration as of 12/31/2023 multiplied by the percentage point change in the yield curve (basis point change divided by 100), while adjusting for convexity effects using the index's Option-Adjusted Convexity as of 12/31/2023, and then appropriately adding or subtracting this implied percentage change in the value of the index (due to the shift in the yield curve) to the base case annualized return. This is a rough approximation of the annual return sensitivity to parallel shifts in the yield curve.

Real Estate Market

Sector	Index	4Q23	YTD	2022	2021	2020	2019	2018	1-Year	3-Year	5-Year	10-Year
US Private	NCREIF ODCE Equal Weighted (net)	-5.4%	-13.4%	7.6%	21.9%	0.8%	5.2%	7.3%	-13.4%	4.3%	3.8%	6.7%
	NCREIF ODCE EW Income Index	0.9%	3.5%	3.5%	4.1%	3.6%	3.5%	3.5%	3.5%	3.7%	3.7%	3.7%
	NCREIF ODCE EW Appreciation Index	-6.1%	-15.8%	4.8%	18.3%	-2.1%	1.7%	3.7%	-15.8%	1.4%	0.7%	3.1%

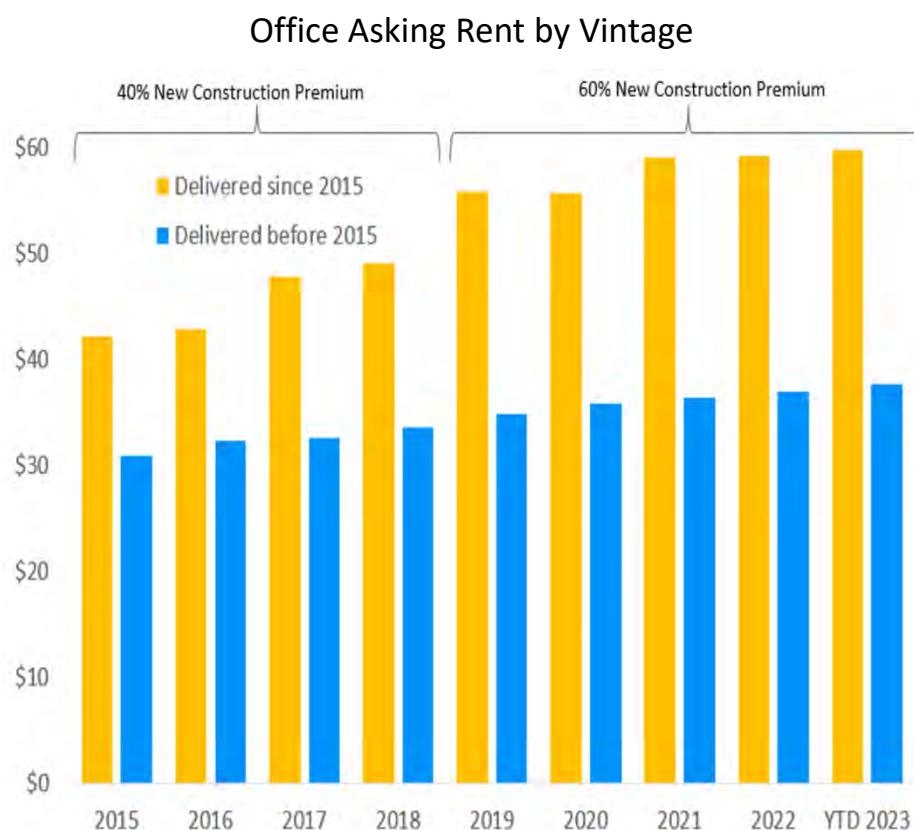
- The NCREIF ODCE Equal Weighted Index (net) declined for the fifth quarter in a row, generating a return of -5.4% in Q4 2023 and -13.4% in 2023.
- The post-pandemic headwinds faced by the commercial real estate market have driven the most significant repricing of real estate since the Global Financial Crisis in 2008-2009. 2023 is the sixth negative calendar year for the NCREIF ODCE index since 1978 and first since 2009, when the index declined by more than -31%.

Historical NCREIF ODCE Equal Weight Total Net Performance



Real Estate Market

- Higher borrowing costs and less access to debt financing continue to weigh on properties across markets and sectors.
- Low levels of demand for office properties due to companies' changing need for office space amid higher levels of remote work continues to weigh on valuations in the sector. An increasing level of transactions on office properties has illustrated significant dispersion between appraisal and transaction values, suggesting further declines on office asset valuations going forward.
- Not all office properties are suffering, however. Newly constructed and/or highly amenitized office assets are drawing a significant premium in rents vs. older stock., as shown in the chart below.

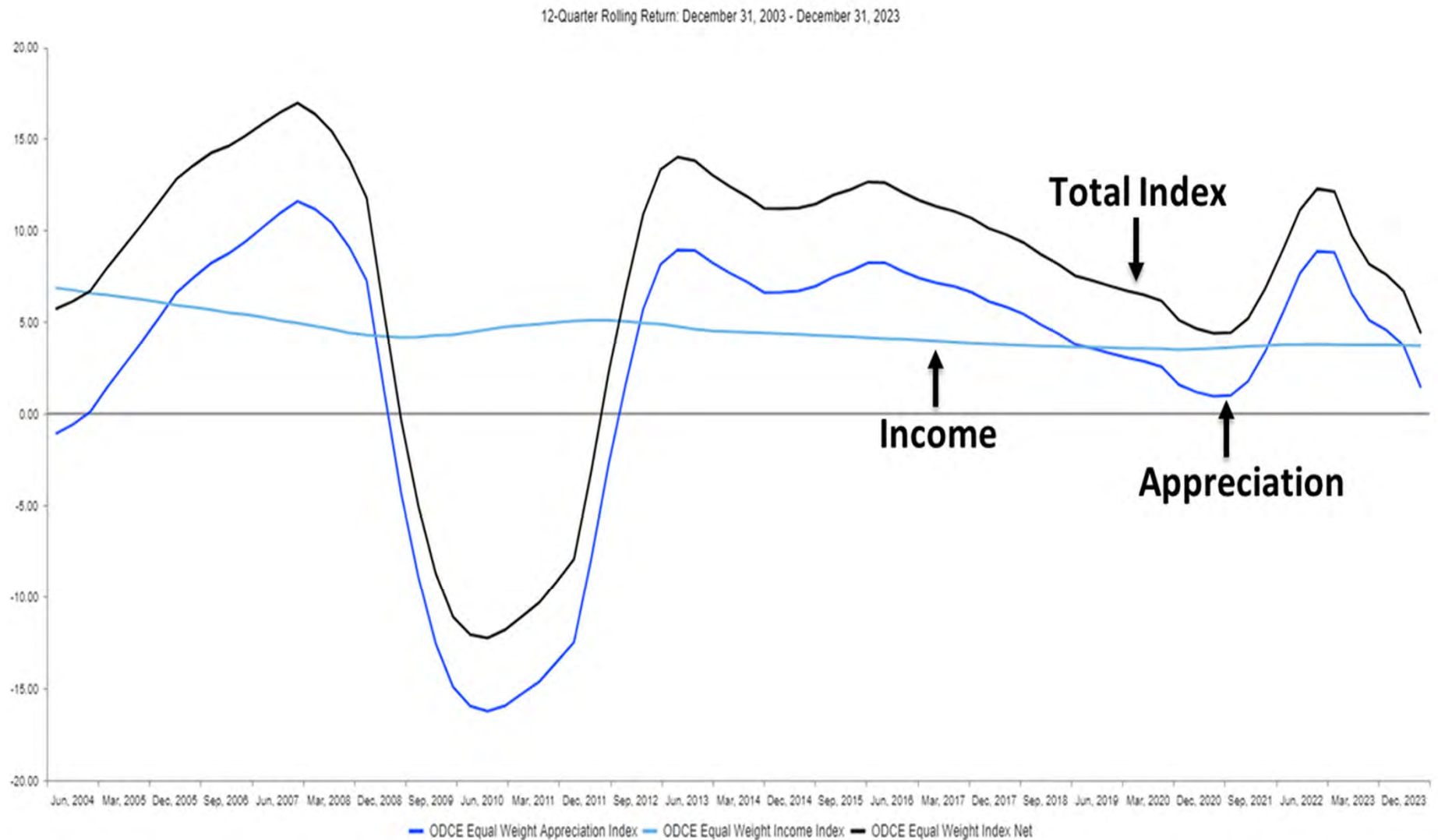


Source: JLL, J.P. Morgan Asset Management; as of 9/30/2023 .

- While lack of demand plagues the office sector, supply dynamics are putting downward pressure on valuations in industrial and multifamily properties, which have been two of the relatively better-performing sectors during the downturn. However, both sectors are experiencing downward pressure on valuations and slowing rent growth in some markets due to oversupply. A substantial amount of construction of industrial and multifamily properties began in the last few years, with those completed buildings coming to market and pressuring rents, occupancy and valuations on existing buildings.
- New construction starts, particularly in the multifamily sector, are limited, which should benefit fundamentals moving forward.
- While declining values present a headwind for existing investments, they do provide an opportunity to acquire assets at attractive prices. Investors are hopeful that declining borrowing costs over the course of 2024 and relatively strong industry fundamentals (outside of the office sector) will drive a recovery in valuations later this year.

Real Estate Market

- The income component of real estate returns continues to remain stable, providing a buffer against the recent periods of negative appreciation. Real estate valuations have been in decline for five consecutive quarters dating to Q4 2022, driving declines in total returns for the NCREIF ODCE Index.



+ Quarterly data

Hedge Fund Market

Strategy	Index	4Q23	YTD	2022	2021	2020	2019	2018	1-Year	3-Year	5-Year	10-Year
Fund of Funds	HFRI FOF Composite	3.6%	6.6%	-5.3%	6.2%	10.9%	8.4%	-4.0%	6.6%	2.3%	5.2%	3.3%
Equity Long-Short	HFRI Equity Hedge	5.6%	10.5%	-10.1%	11.7%	17.9%	13.7%	-7.1%	10.5%	3.5%	8.3%	5.2%
Event Driven	HFRI Event Driven	5.4%	10.4%	-4.8%	12.4%	9.3%	7.5%	-2.1%	10.4%	5.7%	6.8%	4.6%
Global Macro	HFRI Macro Index	-1.1%	-0.6%	9.0%	7.7%	5.4%	6.5%	-4.1%	-0.6%	5.3%	5.5%	3.1%
Relative Value	HFRI Relative Value	2.6%	7.0%	-0.7%	7.6%	3.4%	7.4%	-0.4%	7.0%	4.6%	4.9%	4.0%
Credit	HFRI Credit Index	3.1%	7.8%	-2.6%	7.9%	6.3%	6.5%	-0.0%	7.8%	4.3%	5.1%	4.2%

Hedge Fund Strategy Performance



- Hedge fund strategies were mostly positive in Q4 2023 amidst a backdrop of strongly positive returns across global equity and fixed income markets. The HFRI Fund of Funds Composite generated a 3.6% return in Q4 2023 and closed the year up an estimated 6.6%.
- Gains during the quarter were broad-based, as most sub-strategies, aside from global macro, generated positive performance.
- Equity hedge and event-driven strategies led gains for the quarter, with both the HFRI Equity Hedge and HFRI Event Driven indices up more than 5%, even after posting losses during a volatile month of October. Declines in interest rates and inflation provided a substantial tailwind to equity-oriented strategies in November, with both of the aforementioned indices posting their best-performing month since February 2021. Both indices were strongly positive in December to close the year.
- After starting the quarter with a positive result in October, the HFRI Macro index finished the quarter down -1.1%, driven by lower commodity prices and declining interest rates. Macro strategies are typically utilized as diversifying strategies within hedge fund portfolios and often exhibit low or negative correlations to equity and fixed income indices.



UFCW-Giant Variable Annuity Fund

Master Consulting Services Report

Period Ended

December 31, 2023

Total Fund Growth of Assets			
	Fourth Quarter	Fiscal Year-To-Date	Inception 7/1/22
Beginning Market Value	\$35,483,859	\$16,867,349	\$0
Net Cash Flow	\$1,467,471	\$20,153,957	\$37,063,545
Net Investment Change	\$2,004,807	\$1,934,830	\$1,892,592
Ending Market Value	\$38,956,136	\$38,956,136	\$38,956,136

- The Fund's fiscal year end is December 31st.

UFCW-Giant Variable Annuity Fund
Master Consulting Services Report as of December 31, 2023

Performance Summary (Gross of Fees)

	Market Value	% of Portfolio	Ending December 31, 2023			
			2023 Q4	Fiscal YTD	Inception	Inception Date
Total Fund	\$38,956,136	100.0%	5.7%	5.9%	3.8%	Jul-22
Total Domestic Large Cap Equity	\$3,398,014	8.7%	11.9%	--	16.1%	Apr-23
Total Domestic Small/Mid Cap Equity	\$1,991,514	5.1%	15.1%	--	20.9%	Apr-23
Total International Equity	\$1,836,582	4.7%	10.4%	--	6.0%	Apr-23
Total Global Tactical Asset Allocation	\$1,839,750	4.7%	7.7%	--	7.6%	Jun-23
Investment Grade Fixed Income	\$21,033,843	54.0%	4.1%	--	2.9%	Apr-23
Total High Yield Fixed Income	\$3,060,328	7.9%	6.5%	--	8.2%	Apr-23
Total Real Estate - Core	\$793,474	2.0%	-6.0%	-13.1%	-11.3%	Jul-22
Total Real Estate - Value Add	\$1,400,000	3.6%				
Total Private Equity	\$1,836,320	4.7%	7.8%	--	13.0%	May-23
Total Cash Equivalents	\$1,766,311	4.5%				

Note: The present hurdle rate per the Investment Policy statement is 5.5%.

UFCW-Giant Variable Annuity Fund
Master Consulting Services Report as of December 31, 2023

Current vs. Policy						
	Current	Current	Policy	Policy Range	Difference	Difference
Domestic Large Cap Equity	\$3,398,014	8.7%	7.5%	2.5% - 12.5%	1.2%	\$476,304
Domestic Small/Mid Cap Equity	\$1,991,514	5.1%	5.0%	0.0% - 10.0%	0.1%	\$43,707
International Equity	\$1,836,582	4.7%	5.0%	0.0% - 10.0%	-0.3%	-\$111,224
Global Tactical Asset Allocation	\$1,839,750	4.7%	5.0%	0.0% - 10.0%	-0.3%	-\$108,057
Investment Grade Fixed Income	\$21,033,843	54.0%	52.5%	47.5% - 57.5%	1.5%	\$581,871
High Yield Fixed Income	\$3,060,328	7.9%	7.5%	2.5% - 12.5%	0.4%	\$138,618
Real Estate - Core	\$793,474	2.0%	5.0%	0.0% - 10.0%	-3.0%	-\$1,154,333
Real Estate - Value Add	\$1,400,000	3.6%	7.5%	2.5% - 12.5%	-3.9%	-\$1,521,710
Private Equity	\$1,836,320	4.7%	5.0%	0.0% - 10.0%	-0.3%	-\$111,487
Cash Equivalents	\$1,766,311	4.5%	0.0%	0.0% - 0.0%	4.5%	\$1,766,311
Total	\$38,956,136	100.0%	100.0%			

- Policy adopted March 2023; effective January 2024.

UFCW-Giant Variable Annuity Fund - Asset Allocation

- Asset allocation reviews were presented and discussed with the Board of Trustees at the following meetings: May 23, 2022, and March 17, 2023.
- At the May 23, 2022 meeting, IPS presented an asset allocation review, draft investment policy statement, and manager searches. The Trustees approved the following recommendations:
 - Adopt Policy: 10.0% domestic large cap equity, 5.0% domestic small/mid cap equity, 5.0% international equity, 10.0% global tactical asset allocation, 30.0% investment grade fixed income, 15.0% high yield fixed income, 5.0% real estate - core, 15.0% real estate - value add, and 5.0% private equity.
 - Retain the following managers: domestic large cap equity (Northern Trust Russell 1000 Growth Index, Northern Trust Russell 1000 Value Index), domestic small/mid cap equity (Northern Trust Extended Equity Index), international equity (Northern Trust EAFE Index), global tactical asset allocation (First Eagle Global Value Fund, LP), investment grade fixed income (Chartwell Investment Partners), high yield fixed income (MacKay Shields High Yield CIT), real estate – core (ARA Core Property Fund, LP), real estate – value add (Intercontinental US Real Estate Investment Fund, LLC and Boyd Watterson State Government Fund, LP), and private equity (Hamilton Lane Private Assets Fund). Status: ARA funded on July 1, 2022. All other investments except for First Eagle, Intercontinental, Boyd Watterson State Government Fund, and Hamilton Lane were funded in April 2023.
- At the March 17, 2023 meeting, IPS presented an asset allocation review. The Trustees adopted Policy: 7.5% domestic large cap equity (-2.5%), 5.0% domestic small/mid cap equity, 5.0% international equity, 5.0% global tactical asset allocation (-5.0%), 52.5% investment grade fixed income (+22.5%), 7.5% high yield fixed income (-7.5%), 5.0% real estate – core, 7.5% real estate – value add (-7.5%), and 5.0% private equity.
- At the June 27, 2023 meeting, IPS recommended investing available cash pro-rate based on asset allocation with dollars intended for real estate – value add allocated to investment grade fixed income. Decision: Approved. Status: Transfers occurred in August 2023.

Recommendation: Following the presentation of the annual asset allocation review, consider modifying the Policy. Note: Allocations are expected to rebalance closer to Policy as the real estate – value add capital calls are made.

UFCW-Giant Variable Annuity Fund
Master Consulting Services Report as of December 31, 2023

Commitment and Funding of Real Estate - Core (In Millions) as of December 31, 2023									
Investments		Commitments			Contributions & Distributions		Valuations		Performance
Account Name	Vintage Year	Commitment	Unfunded Commitment	Call Ratio	Cumulative Contributions	Cumulative Distributions	Valuation	Total Value	DPI TVPI
ARA Core Property Fund, LP	2022	\$1.0	\$0.0	1.0	\$1.0	\$0.0	\$0.8	\$0.8	0.0 0.8
Total		\$1.0	\$0.0	1.0	\$1.0	\$0.0	\$0.8	\$0.8	0.0 0.8

Commitment and Funding of Real Estate - Value Add (In Millions) as of December 31, 2023									
Investments		Commitments			Contributions & Distributions		Valuations		Performance
Account Name	Vintage Year	Commitment	Unfunded Commitment	Call Ratio	Cumulative Contributions	Cumulative Distributions	Valuation	Total Value	DPI TVPI
Boyd Watterson State Government Fund, LP		\$1.4	\$0.0	1.0	\$1.4	\$0.0	\$1.4	\$1.4	0.0 1.0
¹ Intercontinental U.S. Real Estate Investment Fund		\$1.4	\$1.4		\$0.0	\$0.0	\$0.0	\$0.0	
Total		\$2.8	\$1.4	0.5	\$1.4	\$0.0	\$1.4	\$1.4	0.0 1.0

¹Commitment fully satisfied as of January 23, 2024.

Value Add (In Millions) as of December 31, 2023									
Investments		Commitments			Contributions & Distributions		Valuations		Performance
Account Name	Vintage Year	Commitment	Unfunded Commitment	Call Ratio	Cumulative Contributions	Cumulative Distributions	Valuation	Total Value	DPI TVPI
Hamilton Lane Private Assets Fund - Class I	2023	\$1.1	\$0.0	1.0	\$1.1	\$0.0	\$1.8	\$1.9	0.0 1.7
Total		\$1.1	\$0.0	1.0	\$1.1	\$0.0	\$1.8	\$1.9	0.0 1.7

- Distribution to Paid-In (DPI) – The DPI is the value of all distributions to limited partners divided by the amount limited partners have contributed to the fund. A DPI of 1 indicates the investor has received capital back equal to what they invested while a DPI over 1 indicates an investor has received more capital back than they invested. DPI is most relevant for closed-end fund structures such as private equity.
- Total Value to Paid in Multiple (TVPI) – The TVPI is a measure of return that expresses how much a fund has made relative to how much was contributed. It is calculated by dividing the sum of the amount of capital distributed to investors and the amount of remaining value by the amount of invested capital. A TVPI below 1 indicates the current value of the investment plus the capital returned to the investor is less than the investor contributed. A TVPI greater than 1 indicates the current value of the investment plus the capital returned to the investor is more than the investor contributed. For closed-end funds such as private equity, DPI and TVPI will be the same at the end of the fund's life.
- Performance data included in the table above may differ from performance data provided by the investment manager due to the availability and timing of data used in the calculations.

UFCW-Giant Variable Annuity Fund
Master Consulting Services Report as of December 31, 2023

Performance Detail (Net of Fees)

	Market Value	% of Portfolio	Ending December 31, 2023			
			2023 Q4	Fiscal YTD	Inception	Inception Date
Total Fund	\$38,956,136	100.0%	5.6%	5.7%	3.6%	Jul-22
Total Domestic Large Cap Equity	\$3,398,014	8.7%	11.9%	--	16.1%	Apr-23
Northern Trust Russell 1000 Growth Index Fund - Non-Lending	\$1,754,444	4.5%	14.2%	--	23.5%	Apr-23
<i>Russell 1000 Growth</i>			14.2%	--	23.5%	Apr-23
Northern Trust Russell 1000 Value Index Fund - Non-Lending	\$1,643,570	4.2%	9.5%	--	8.7%	Apr-23
<i>Russell 1000 Value</i>			9.5%	--	8.7%	Apr-23
Total Domestic Small/Mid Cap Equity	\$1,991,514	5.1%	15.1%	--	20.9%	Apr-23
Northern Trust Collective Extended Index Fund	\$1,991,514	5.1%	15.1%	--	20.9%	Apr-23
<i>Dow Jones U.S. Completion Total Stock Market</i>			14.9%	--	20.8%	Apr-23
Total International Equity	\$1,836,582	4.7%	10.4%	--	5.9%	Apr-23
Northern Trust EAFE Index Fund	\$1,836,582	4.7%	10.4%	--	5.9%	Apr-23
<i>MSCI EAFE</i>			10.4%	--	6.0%	Apr-23
Total Global Tactical Asset Allocation	\$1,839,750	4.7%	7.5%	--	7.1%	Jun-23
First Eagle Global Value Fund, LP	\$1,839,750	4.7%	7.5%	--	7.1%	Jun-23
<i>65% MSCI World Index/35% FTSE WGBI</i>			10.3%	--	10.3%	Jun-23
<i>65% MSCI World Value Index/35% FTSE WGBI</i>			8.9%	--	10.0%	Jun-23
Investment Grade Fixed Income	\$21,033,843	54.0%	4.1%	--	2.7%	Apr-23
Chartwell Investment Partners	\$21,033,843	54.0%	4.1%	--	2.7%	Apr-23
<i>Bloomberg US Govt/Credit Int TR</i>			4.6%	--	2.2%	Apr-23

UFCW-Giant Variable Annuity Fund
Master Consulting Services Report as of December 31, 2023

Performance Detail (Net of Fees)

	Market Value	% of Portfolio	Ending December 31, 2023			
			2023 Q4	Fiscal YTD	Inception	Inception Date
Total High Yield Fixed Income	\$3,060,328	7.9%	6.4%	--	7.8%	Apr-23
MacKay Shields High Yield Bond Fund Class 2	\$3,060,328	7.9%	6.4%	--	7.8%	Apr-23
ICE BofA US High Yield TR			7.1%	--	8.4%	Apr-23
Total Real Estate - Core	\$793,474	2.0%	-6.2%	-14.0%	-12.2%	Jul-22
ARA Core Property Fund, LP	\$793,474	2.0%	-6.2%	-14.0%	-12.2%	Jul-22
NCREIF ODCE Equal Weighted Net			-5.4%	-13.4%	-11.7%	Jul-22
Total Real Estate - Value Add	\$1,400,000	3.6%				
Boyd Watterson State Government Fund, LP	\$1,400,000	3.6%				
Total Private Equity	\$1,836,320	4.7%	7.4%	--	12.0%	May-23
Hamilton Lane Private Assets Fund - Class I	\$1,836,320	4.7%	7.4%	--	12.0%	May-23
Total Cash Equivalents	\$1,766,311	4.5%				
PNC Checking Account	\$825,310	2.1%				
Cash Account	\$941,001	2.4%				

Note: UFCW-Giant Variable Annuity Fund Cash Account is invested in the Federated Hermes Govt Olig Prem SHS and yield as of December 31, 2023 is 5.30%.

Account Information	
Account Name	Northern Trust Russell 1000 Growth Index Fund - Non-Lending
Account Structure	Commingled Fund
Investment Style	Passive
Inception Date	4/30/23
Account Type	Domestic Large Cap Growth Equity
Benchmark	Russell 1000 Growth
Universe	eV US Large Cap Growth Equity Net

Northern Trust Russell 1000 Growth Index Fund - Non-Lending		
Ending December 31, 2023		
	Fourth Quarter	Inception 4/30/23
Beginning Market Value	\$883,278	\$0
Net Cash Flow	\$700,000	\$1,528,750
Net Investment Change	\$171,166	\$225,694
Ending Market Value	\$1,754,444	\$1,754,444

Ending December 31, 2023												
	2023 Q4	Rank	1 Yr Rank	3 Yrs Rank	5 Yrs Rank	2023 Rank	2022 Rank	2021 Rank	2020 Rank	2019 Rank	Inception	Inception Date
Northern Trust Russell 1000 Growth Index Fund - Non-Lending	14.2%	37	--	--	--	--	--	--	--	--	23.5%	Apr-23
Russell 1000 Growth	14.2%	38	--	--	--	--	--	--	--	--	23.5%	Apr-23

Note: Returns are net of fees.

UFCW-Giant Variable Annuity Fund - Northern Trust Russell 1000 Growth Index Fund - Non-Lending

Manager Summary

Recommendation: None.

Compliance Summary

Manager verified the portfolio and individual holdings are currently, and have been during the past quarter, in compliance with the commingled investment vehicle guidelines and/or prospectus governing the management of the investment. With respect to the portfolio(s) under management, manager acknowledges sole fiduciary responsibility under ERISA for adherence with the commingled investment vehicle and/or prospectus guidelines.

Items of Interest: Personnel Changes - The manager stated the following personnel changes occurred during 4Q 2023: 1) Garrett Cox was named Chief of Staff for Asset Management. Garrett will be responsible for overseeing all matters as it relates to the Office of the President, including helping drive strategic priorities and initiatives – across the firm – and overseeing engagements with key external and internal stakeholders. 2) James Rippey joined the Asset Management Chief Operating Officer (COO) leadership team as COO of EMEA region (pending regulatory approval). He will continue to serve as International Chief Risk Officer covering EMEA and APAC during this transition period. 3) Jane Karpinski, previously Chief Audit Executive, will serve as Global Head of Regulatory Affairs. In this newly created role, Jane will be responsible for overseeing the enhancement of risk management and controls, remediation of regulatory and audit findings and administration of regulatory affairs. She becomes a member of the Corporation's Management Group. Lauren Allnutt, Corporate Controller, replaces Jane as Chief Audit Executive. **Personnel Departure** - The manager stated Chris Shipley, Chief Investment Strategist for North America, and co-portfolio manager for the Northern Funds Global Tactical Asset Allocation Fund (BBALX), is leaving Northern Trust to pursue other interests. Anwiti Bahuguna, Ph.D., and Daniel B. Ballantine, CFA, have been added to the fund as portfolio managers. **Personnel Additions** - The manager stated the following personnel additions occurred during 4Q 2023: 1) Guido Baltussen joined NTAM as Head of Quantitative Strategies, International. He was previously Head of Equity Factor Investing and Co-head of Quantitative Fixed Income in Robeco. 2) Sunitha Thomas, CFA, rejoined NTAM after spending more than 15 years managing client portfolios for Northern Trust Wealth Management. In this newly created role, Sunitha will co-head the Wealth Client Group. **Form ADV** - The manager stated on December 22, 2023, NTI filed an other than annual amendment to its ADV to add a new Regulatory Action Disclosure in Schedule A related to one of NTI's participating affiliates. **Errors and Omissions** - The manager stated there were no changes to Northern Trust's Errors & Omissions insurance policy over the last quarter. The policy was recently renewed for the period 30 June 2023 – 30 June 2024.

Account Information	
Account Name	Northern Trust Russell 1000 Value Index Fund - Non-Lending
Account Structure	Commingled Fund
Investment Style	Passive
Inception Date	4/30/23
Account Type	Domestic Large Cap Value Equity
Benchmark	Russell 1000 Value
Universe	eV US Large Cap Value Equity Net

Northern Trust Russell 1000 Value Index Fund - Non-Lending		
Ending December 31, 2023		
	Fourth Quarter	Inception 4/30/23
Beginning Market Value	\$819,651	\$0
Net Cash Flow	\$700,000	\$1,528,750
Net Investment Change	\$123,919	\$114,820
Ending Market Value	\$1,643,570	\$1,643,570

									Ending December 31, 2023											
	2023 Q4	Rank	1 Yr	Rank	3 Yrs	Rank	5 Yrs	Rank	2023	Rank	2022	Rank	2021	Rank	2020	Rank	2019	Rank	Inception	Inception Date
Northern Trust Russell 1000 Value Index Fund - Non-Lending	9.5%	59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.7%	Apr-23
Russell 1000 Value	9.5%	59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.7%	Apr-23

Note: Returns are net of fees.

UFCW-Giant Variable Annuity Fund - Northern Trust Russell 1000 Value Index Fund - Non-Lending

Manager Summary

Recommendation: None.

Compliance Summary

Manager verified the portfolio and individual holdings are currently, and have been during the past quarter, in compliance with the commingled investment vehicle guidelines and/or prospectus governing the management of the investment. With respect to the portfolio(s) under management, manager acknowledges sole fiduciary responsibility under ERISA for adherence with the commingled investment vehicle and/or prospectus guidelines.

Items of Interest: Personnel Changes - The manager stated the following personnel changes occurred during 4Q 2023: 1) Garrett Cox was named Chief of Staff for Asset Management. Garrett will be responsible for overseeing all matters as it relates to the Office of the President, including helping drive strategic priorities and initiatives – across the firm – and overseeing engagements with key external and internal stakeholders. 2) James Rippey joined the Asset Management Chief Operating Officer (COO) leadership team as COO of EMEA region (pending regulatory approval). He will continue to serve as International Chief Risk Officer covering EMEA and APAC during this transition period. 3) Jane Karpinski, previously Chief Audit Executive, will serve as Global Head of Regulatory Affairs. In this newly created role, Jane will be responsible for overseeing the enhancement of risk management and controls, remediation of regulatory and audit findings and administration of regulatory affairs. She becomes a member of the Corporation's Management Group. Lauren Allnutt, Corporate Controller, replaces Jane as Chief Audit Executive. **Personnel Departure** - The manager stated Chris Shipley, Chief Investment Strategist for North America, and co-portfolio manager for the Northern Funds Global Tactical Asset Allocation Fund (BBALX), is leaving Northern Trust to pursue other interests. Anwiti Bahuguna, Ph.D., and Daniel B. Ballantine, CFA, have been added to the fund as portfolio managers. **Personnel Additions** - The manager stated the following personnel additions occurred during 4Q 2023: 1) Guido Baltussen joined NTAM as Head of Quantitative Strategies, International. He was previously Head of Equity Factor Investing and Co-head of Quantitative Fixed Income in Robeco. 2) Sunitha Thomas, CFA, rejoined NTAM after spending more than 15 years managing client portfolios for Northern Trust Wealth Management. In this newly created role, Sunitha will co-head the Wealth Client Group. **Form ADV** - The manager stated on December 22, 2023, NTI filed an other than annual amendment to its ADV to add a new Regulatory Action Disclosure in Schedule A related to one of NTI's participating affiliates. **Errors and Omissions** - The manager stated there were no changes to Northern Trust's Errors & Omissions insurance policy over the last quarter. The policy was recently renewed for the period 30 June 2023 – 30 June 2024.

Account Information	
Account Name	Northern Trust Collective Extended Index Fund
Account Structure	Commingled Fund
Investment Style	Passive
Inception Date	4/30/23
Account Type	Domestic Small/Mid Cap Core Equity
Benchmark	Dow Jones U.S. Completion Total Stock Market
Universe	eV US Small-Mid Cap Core Equity Net

Northern Trust Collective Extended Index Fund		
Ending December 31, 2023		
	Fourth Quarter	Inception 4/30/23
Beginning Market Value	\$1,132,778	\$0
Net Cash Flow	\$600,000	\$1,705,000
Net Investment Change	\$258,736	\$286,514
Ending Market Value	\$1,991,514	\$1,991,514

								Ending December 31, 2023												
	2023 Q4	Rank	1 Yr	Rank	3 Yrs	Rank	5 Yrs	Rank	2023	Rank	2022	Rank	2021	Rank	2020	Rank	2019	Rank	Inception	Inception Date
Northern Trust Collective Extended Index Fund	15.1%	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.9%	Apr-23
Dow Jones U.S. Completion Total Stock Market	14.9%	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.8%	Apr-23

Note: Returns are net of fees.

UFCW-Giant Variable Annuity Fund - Northern Trust Collective Extended Index Fund

Manager Summary

Recommendation: None.

Compliance Summary

Manager verified the portfolio and individual holdings are currently, and have been during the past quarter, in compliance with the commingled investment vehicle guidelines and/or prospectus governing the management of the investment. With respect to the portfolio(s) under management, manager acknowledges sole fiduciary responsibility under ERISA for adherence with the commingled investment vehicle and/or prospectus guidelines.

Items of Interest: Personnel Changes - The manager stated the following personnel changes occurred during 4Q 2023: 1) Garrett Cox was named Chief of Staff for Asset Management. Garrett will be responsible for overseeing all matters as it relates to the Office of the President, including helping drive strategic priorities and initiatives – across the firm – and overseeing engagements with key external and internal stakeholders. 2) James Rippey joined the Asset Management Chief Operating Officer (COO) leadership team as COO of EMEA region (pending regulatory approval). He will continue to serve as International Chief Risk Officer covering EMEA and APAC during this transition period. 3) Jane Karpinski, previously Chief Audit Executive, will serve as Global Head of Regulatory Affairs. In this newly created role, Jane will be responsible for overseeing the enhancement of risk management and controls, remediation of regulatory and audit findings and administration of regulatory affairs. She becomes a member of the Corporation's Management Group. Lauren Allnutt, Corporate Controller, replaces Jane as Chief Audit Executive. **Personnel Departure** - The manager stated Chris Shipley, Chief Investment Strategist for North America, and co-portfolio manager for the Northern Funds Global Tactical Asset Allocation Fund (BBALX), is leaving Northern Trust to pursue other interests. Anwiti Bahuguna, Ph.D., and Daniel B. Ballantine, CFA, have been added to the fund as portfolio managers. **Personnel Additions** - The manager stated the following personnel additions occurred during 4Q 2023: 1) Guido Baltussen joined NTAM as Head of Quantitative Strategies, International. He was previously Head of Equity Factor Investing and Co-head of Quantitative Fixed Income in Robeco. 2) Sunitha Thomas, CFA, rejoined NTAM after spending more than 15 years managing client portfolios for Northern Trust Wealth Management. In this newly created role, Sunitha will co-head the Wealth Client Group. **Form ADV** - The manager stated on December 22, 2023, NTI filed an other than annual amendment to its ADV to add a new Regulatory Action Disclosure in Schedule A related to one of NTI's participating affiliates. **Errors and Omissions** - The manager stated there were no changes to Northern Trust's Errors & Omissions insurance policy over the last quarter. The policy was recently renewed for the period 30 June 2023 – 30 June 2024.

Account Information	
Account Name	Northern Trust EAFE Index Fund
Account Structure	Commingled Fund
Investment Style	Passive
Inception Date	4/30/23
Account Type	International Large Cap Equity
Benchmark	MSCI EAFE
Universe	eV All EAFE Equity Net

Northern Trust EAFE Index Fund		
Ending December 31, 2023		
	Fourth Quarter	Inception 4/30/23
Beginning Market Value	\$1,067,831	\$0
Net Cash Flow	\$600,000	\$1,705,000
Net Investment Change	\$168,751	\$131,582
Ending Market Value	\$1,836,582	\$1,836,582

									Ending December 31, 2023											
	2023 Q4	Rank	1 Yr	Rank	3 Yrs	Rank	5 Yrs	Rank	2023	Rank	2022	Rank	2021	Rank	2020	Rank	2019	Rank	Inception	Inception Date
Northern Trust EAFE Index Fund	10.4%	42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.9%	Apr-23
MSCI EAFE	10.4%	42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0%	Apr-23

Note: Returns are net of fees.

UFCW-Giant Variable Annuity Fund - Northern Trust EAFE Index Fund

Manager Summary

Recommendation: None.

Compliance Summary

Manager verified the portfolio and individual holdings are currently, and have been during the past quarter, in compliance with the commingled investment vehicle guidelines and/or prospectus governing the management of the investment. With respect to the portfolio(s) under management, manager acknowledges sole fiduciary responsibility under ERISA for adherence with the commingled investment vehicle and/or prospectus guidelines.

Items of Interest: Personnel Changes - The manager stated the following personnel changes occurred during 4Q 2023: 1) Garrett Cox was named Chief of Staff for Asset Management. Garrett will be responsible for overseeing all matters as it relates to the Office of the President, including helping drive strategic priorities and initiatives – across the firm – and overseeing engagements with key external and internal stakeholders. 2) James Rippey joined the Asset Management Chief Operating Officer (COO) leadership team as COO of EMEA region (pending regulatory approval). He will continue to serve as International Chief Risk Officer covering EMEA and APAC during this transition period. 3) Jane Karpinski, previously Chief Audit Executive, will serve as Global Head of Regulatory Affairs. In this newly created role, Jane will be responsible for overseeing the enhancement of risk management and controls, remediation of regulatory and audit findings and administration of regulatory affairs. She becomes a member of the Corporation's Management Group. Lauren Allnutt, Corporate Controller, replaces Jane as Chief Audit Executive. **Personnel Departure** - The manager stated Chris Shipley, Chief Investment Strategist for North America, and co-portfolio manager for the Northern Funds Global Tactical Asset Allocation Fund (BBALX), is leaving Northern Trust to pursue other interests. Anwiti Bahuguna, Ph.D., and Daniel B. Ballantine, CFA, have been added to the fund as portfolio managers. **Personnel Additions** - The manager stated the following personnel additions occurred during 4Q 2023: 1) Guido Baltussen joined NTAM as Head of Quantitative Strategies, International. He was previously Head of Equity Factor Investing and Co-head of Quantitative Fixed Income in Robeco. 2) Sunitha Thomas, CFA, rejoined NTAM after spending more than 15 years managing client portfolios for Northern Trust Wealth Management. In this newly created role, Sunitha will co-head the Wealth Client Group. **Form ADV** - The manager stated on December 22, 2023, NTI filed an other than annual amendment to its ADV to add a new Regulatory Action Disclosure in Schedule A related to one of NTI's participating affiliates. **Errors and Omissions** - The manager stated there were no changes to Northern Trust's Errors & Omissions insurance policy over the last quarter. The policy was recently renewed for the period 30 June 2023 – 30 June 2024.

Account Information	
Account Name	First Eagle Global Value Fund, LP
Account Structure	Commingled Fund
Investment Style	Active
Inception Date	6/01/23
Account Type	Global Tactical Asset Allocation
Benchmark	65% MSCI World Index/35% FTSE WGBI
Universe	

First Eagle Global Value Fund, LP		
Ending December 31, 2023		
	Fourth Quarter	Inception 6/1/23
Beginning Market Value	\$1,101,048	\$0
Net Cash Flow	\$600,000	\$1,705,000
Net Investment Change	\$138,702	\$134,750
Ending Market Value	\$1,839,750	\$1,839,750

	Ending December 31, 2023										
	2023 Q4	1 Yr	3 Yrs	5 Yrs	2023	2022	2021	2020	2019	Inception	Inception Date
First Eagle Global Value Fund, LP	7.7%	--	--	--	--	--	--	--	--	7.6%	Jun-23
65% MSCI World Index/35% FTSE WGBI	10.3%	--	--	--	--	--	--	--	--	10.3%	Jun-23
65% MSCI World Value Index/35% FTSE WGBI	8.9%	--	--	--	--	--	--	--	--	10.0%	Jun-23

Note: Returns are gross of fees.

UFCW-Giant Variable Annuity Fund - First Eagle Global Value Fund, LP

Manager Summary

- IPS conducted due diligence meetings with First Eagle on October 26, 2021 and September 28, 2022.

Recommendation: None.

Compliance Summary

Manager verified that the portfolio is currently, and has been during the past quarter, in compliance with the firm's commingled investment vehicle guidelines and/or offering document governing the management of the investment. With respect to the portfolio(s) under management, manager acknowledges sole fiduciary responsibility under ERISA for adherence with the commingled investment vehicle and/or offering document guidelines.

Items of Interest: None.

Account Information	
Account Name	Chartwell Investment Partners
Account Structure	Separate Account
Investment Style	Active
Inception Date	4/30/23
Account Type	Investment Grade Fixed Income
Benchmark	Bloomberg US Govt/Credit Int TR
Universe	

Chartwell Investment Partners		
Ending December 31, 2023		
	Fourth Quarter	Inception 4/30/23
Beginning Market Value	\$12,190,435	\$0
Net Cash Flow	\$8,000,000	\$20,290,000
Net Investment Change	\$843,408	\$743,843
Ending Market Value	\$21,033,843	\$21,033,843

	Ending December 31, 2023										
	2023 Q4	1 Yr	3 Yrs	5 Yrs	2023	2022	2021	2020	2019	Inception	Inception Date
Chartwell Investment Partners	4.1%	--	--	--	--	--	--	--	--	2.9%	Apr-23
Bloomberg US Govt/Credit Int TR	4.6%	--	--	--	--	--	--	--	--	2.2%	Apr-23

Note: Returns are gross of fees.

UFCW-Giant Variable Annuity Fund - Chartwell Investment Partners

Manager Summary

- IPS conducted due diligence meetings with Chartwell on January 19, 2021, July 22, 2021, July 19, 2022 and July 18, 2023.
- On October 20, 2021, Chartwell announced that their parent company, TriState Capital Holdings, has agreed to be acquired by Raymond James Financial. Upon closing of the transaction, Chartwell will become an affiliate of Carillon Tower, the asset management subsidiary of Raymond James Financial. Chartwell provided a letter to clients requesting acknowledgment and consent to the ownership change. IPS provided a memo recommending clients consent to the ownership change, subject to counsel review. Consent was provided. The transaction closed on June 1, 2022.

Recommendation: None.

Compliance Summary

Exceptions: None.

Action to be taken: None.

Items of Interest: Personnel Changes - The manager stated Chartwell has eliminated the full time Chief Operating Officer (COO) and Chief Compliance Officer (CCO) roles at the firm effective December 31, 2023. COO duties have been assumed by a management team of Tim Riddle, Chief Executive Officer, and Greg Hagar, Chief Financial Officer. CCO duties have been assumed by a newly appointed Chartwell CCO, Ludmila Chwazik, who works for Raymond James and is also the CCO of the affiliated Carillon Family of Funds.

Account Information	
Account Name	MacKay Shields High Yield Bond Fund Class 2
Account Structure	Commingled Fund
Investment Style	Active
Inception Date	4/30/23
Account Type	High Yield Fixed Income
Benchmark	ICE BofA US High Yield TR
Universe	

MacKay Shields High Yield Bond Fund Class 2		
Ending December 31, 2023		
	Fourth Quarter	Inception 4/30/23
Beginning Market Value	\$1,673,692	\$0
Net Cash Flow	\$1,200,000	\$2,857,500
Net Investment Change	\$186,636	\$202,828
Ending Market Value	\$3,060,328	\$3,060,328

	Ending December 31, 2023										
	2023 Q4	1 Yr	3 Yrs	5 Yrs	2023	2022	2021	2020	2019	Inception	Inception Date
MacKay Shields High Yield Bond Fund Class 2	6.5%	--	--	--	--	--	--	--	--	8.2%	Apr-23
ICE BofA US High Yield TR	7.1%	--	--	--	--	--	--	--	--	8.4%	Apr-23

Note: Returns are gross of fees.

UFCW-Giant Variable Annuity Fund - MacKay Shields High Yield Bond Fund Class 2

Manager Summary

- IPS conducted due diligence meetings with MacKay Shields on February 4, 2021, November 23, 2021, May 25, 2022 and October 23, 2023.

Recommendation: None.

Compliance Summary

Manager verified the portfolio and individual holdings are currently, and have been during the past quarter, in compliance with the firm's commingled investment vehicle guidelines and/or prospectus governing the management of the investment. With respect to the portfolio(s) under management, MacKay Shields, LLC acknowledges that it is a fiduciary to the MacKay Shields High Yield Bond CIT in its capacity as an investment manager.

Items of Interest: None.

Account Information	
Account Name	ARA Core Property Fund, LP
Account Structure	Commingled Fund
Investment Style	Active
Inception Date	7/01/22
Account Type	Real Estate - Core
Benchmark	NCREIF ODCE Equal Weighted Net
Universe	

Income is reinvested.

ARA Core Property Fund, LP		
Ending December 31, 2023		
	Fourth Quarter	Inception 7/1/22
Beginning Market Value	\$846,324	\$0
Net Cash Flow	\$0	\$965,000
Net Investment Change	-\$52,850	-\$171,526
Ending Market Value	\$793,474	\$793,474

	Ending December 31, 2023										
	2023 Q4	1 Yr	3 Yrs	5 Yrs	2023	2022	2021	2020	2019	Inception	Inception Date
ARA Core Property Fund, LP	-6.0%	-13.1%	--	--	-13.1%	--	--	--	--	-11.3%	Jul-22
NCREIF ODCE Equal Weighted Net	-5.4%	-13.4%	--	--	-13.4%	--	--	--	--	-11.7%	Jul-22

Note: Returns are gross of fees.

UFCW-Giant Variable Annuity Fund - ARA Core Property Fund, LP

Manager Summary

- IPS conducted due diligence meetings with American Realty Advisors on November 16, 2021, August 3, 2022 and June 29, 2023.
- On August 24, 2022, ARA announced the implementation of a withdrawal queue effective September 30, 2022.
- On May 27, 2021, ARA announced that the American Core Realty Fund, LP will be changing its name to the ARA Core Property Fund, LP. No changes are expected in the strategy or objectives of the Fund as a result.

Recommendation: None.

Compliance Summary

Manager verified that the portfolio is currently, and has been during the past quarter, in compliance with the firm's commingled investment vehicle investment guidelines and/or offering document governing the management of the investment. With respect to the portfolio(s) under management, manager acknowledges sole fiduciary responsibility under ERISA for adherence with the commingled investment vehicle and/or offering document guidelines.

Items of Interest: Liquidity - The manager stated that partial redemption payments were made for all requests timely received for the December 31, 2023 redemption date. The number of quarters required to satisfy outstanding redemptions requests is uncertain and depends on market conditions, but ARA anticipates that the Fund will make partial payments for requests that were received timely for the March 31, 2024 redemption date and that a queue may be in place in the second quarter of 2024. **Derivatives** - The manager stated yes to Part A question #5, however ARA does not perform stress testing as the Fund only holds a minimal amount of derivatives for interest rate hedging purposes.

Account Information	
Account Name	Hamilton Lane Private Assets Fund - Class I
Account Structure	Commingled Fund
Investment Style	Active
Inception Date	5/31/23
Account Type	Private Equity
Benchmark	
Universe	

Hamilton Lane Private Assets Fund - Class I		
Ending December 31, 2023		
	Fourth Quarter	Inception 5/31/23
Beginning Market Value	\$1,142,195	\$0
Net Cash Flow	\$586,258	\$1,691,258
Net Investment Change	\$107,867	\$145,062
Ending Market Value	\$1,836,320	\$1,836,320

	Ending December 31, 2023										
	2023 Q4	1 Yr	3 Yrs	5 Yrs	2023	2022	2021	2020	2019	Inception	Inception Date
Hamilton Lane Private Assets Fund - Class I	7.8%	--	--	--	--	--	--	--	--	13.0%	May-23

Note: Returns are gross of fees.

UFCW-Giant Variable Annuity Fund - Hamilton Lane Private Assets Fund - Class I

Manager Summary

- IPS conducted due diligence meetings with Hamilton Lane on May 18, 2021, December 20, 2021 and June 1, 2023.

Recommendation: None.

Compliance Summary

Manager stated with regard to Hamilton Lane Private Assets Fund, the investment in the fund is governed by the Limited Partnership Agreement of the fund; the fund is currently, and has been during the past quarter, covered by insurance to the level specified in such agreement and in compliance in all material respects with such agreement. With respect to the portfolio(s) under management, the manager acknowledges sole fiduciary responsibility under ERISA for adherence with the commingled investment vehicle and/or offering document guidelines.

Items of Interest: Compliance – In the 4Q 2023 Compliance Checklist, the manager responded N/A to the following questions and referenced Schedule I, Number 2, which states the investment in the fund is governed by the Limited Partnership Agreement of the fund (see above for statement from Schedule 1): *Part B Question 7* – Does the amount of insurance coverage meet or exceed the minimum amount required through your investment management contract with the Fund and the minimum amount required through the Fund's Investment Policy Statement? *Part B Question 8* – Is your firm adhering to the communication and reporting requirements as defined in the Fund's investment policy statement? *Part B Question 10* – Does the coverage amount meet the requirements in the Fund's Investment Policy Statement? **Personnel Changes** - Please find the updated organizational chart as of September 30, 2023 attached.

Account Information	
Account Name	Boyd Watterson State Government Fund, LP
Account Structure	Commingled Fund
Investment Style	Active
Inception Date	6/30/23
Account Type	Real Estate - Value Add
Benchmark	
Universe	

Boyd Watterson State Government Fund, LP		
Ending December 31, 2023		
	Fourth Quarter	Inception 6/30/23
Beginning Market Value	\$0	\$0
Net Cash Flow	\$1,400,000	\$1,400,000
Net Investment Change	\$0	\$0
Ending Market Value	\$1,400,000	\$1,400,000

Note: Manager is valued as of initial capital called.

UFCW-Giant Variable Annuity Fund - Boyd Watterson State Government Fund, LP

Manager Summary

- IPS conducted due diligence meetings with Boyd Watterson on May 26, 2021, September 21, 2021, October 17, 2022, July 14, 2023 and November 10, 2023.
- IPS clients received discounted annual management fees of 90 basis points (0.90%) through December 31, 2020 and 115 bps (1.15%) for calendar year 2021. Effective January 1, 2022, a tiered management fee structure of 125 basis points (1.25%) on the first \$25 million, 115 bps (1.15%) on the next \$75 million and 1.05% on invested capital above \$100 million will apply.
- In December 2022, Boyd Watterson requested limited partner consent for several proposed amendments to the Fund's Limited Partnership Agreement (LPA). IPS provided clients with a memo recommending consent to the proposed amendment, subject to counsel review. Boyd Watterson has requested consent be provided by March 31, 2023. In April 2023, Boyd Watterson notified IPS that the amendment received the necessary approval and took effect on July 1, 2023.

Recommendation: None.

Compliance Summary

Commingled Fund: Due to the commingled fund structure, IPS does not monitor the holdings within the commingled fund for compliance with the client's investment policy statement. The commingled fund is governed by its own investment policy.

Manager verified that the portfolio is currently, and has been during the past quarter, in compliance with the firm's commingled investment vehicle guidelines and/or offering document governing the management of the investment. With respect to the portfolio(s) under management, manager acknowledges sole fiduciary responsibility under ERISA for adherence with the commingled investment vehicle and/or offering document guidelines to the extent described in the Fund Documents.

Items of Interests: Derivatives - The manager stated the Fund does not utilize derivatives as an investment vehicle. The manager also stated the Fund does not utilize interest rate swaps to hedge risk related to variable rate loans. **Fidelity Bonding** - The manager stated the investment manager provides bonding for the Fund in accordance with the requirements of Section 412 of ERISA.

Investment Policy Statement

- The current investment policy was adopted on December 10, 2022.

Custody Bank

- PNC.
- Separate account market values and flows are derived from the custodial statement.

Commingled Funds

- Commingled Fund: Due to the commingled fund structure, IPS does not monitor the holdings within the commingled fund for compliance with the client's investment policy statement. The commingled fund is governed by its own investment policy.
- Commingled fund market values and flows are derived from the manager statement.



UFCW-Giant Variable Annuity Fund

Appendix

UFCW-Giant Variable Annuity Fund
Master Consulting Services Report as of December 31, 2023

Performance Detail (Gross of Fees)

	Market Value	% of Portfolio	Ending December 31, 2023			
			2023 Q4	Fiscal YTD	Inception	Inception Date
Total Fund	\$38,956,136	100.0%	5.7%	5.9%	3.8%	Jul-22
Total Domestic Large Cap Equity	\$3,398,014	8.7%	11.9%	--	16.1%	Apr-23
Northern Trust Russell 1000 Growth Index Fund - Non-Lending	\$1,754,444	4.5%	14.2%	--	23.6%	Apr-23
<i>Russell 1000 Growth</i>			14.2%	--	23.5%	Apr-23
Northern Trust Russell 1000 Value Index Fund - Non-Lending	\$1,643,570	4.2%	9.5%	--	8.7%	Apr-23
<i>Russell 1000 Value</i>			9.5%	--	8.7%	Apr-23
Total Domestic Small/Mid Cap Equity	\$1,991,514	5.1%	15.1%	--	20.9%	Apr-23
Northern Trust Collective Extended Index Fund	\$1,991,514	5.1%	15.1%	--	20.9%	Apr-23
<i>Dow Jones U.S. Completion Total Stock Market</i>			14.9%	--	20.8%	Apr-23
Total International Equity	\$1,836,582	4.7%	10.4%	--	6.0%	Apr-23
Northern Trust EAFE Index Fund	\$1,836,582	4.7%	10.4%	--	6.0%	Apr-23
<i>MSCI EAFE</i>			10.4%	--	6.0%	Apr-23
Total Global Tactical Asset Allocation	\$1,839,750	4.7%	7.7%	--	7.6%	Jun-23
First Eagle Global Value Fund, LP	\$1,839,750	4.7%	7.7%	--	7.6%	Jun-23
<i>65% MSCI World Index/35% FTSE WGBI</i>			10.3%	--	10.3%	Jun-23
<i>65% MSCI World Value Index/35% FTSE WGBI</i>			8.9%	--	10.0%	Jun-23
Investment Grade Fixed Income	\$21,033,843	54.0%	4.1%	--	2.9%	Apr-23
Chartwell Investment Partners	\$21,033,843	54.0%	4.1%	--	2.9%	Apr-23
<i>Bloomberg US Govt/Credit Int TR</i>			4.6%	--	2.2%	Apr-23

UFCW-Giant Variable Annuity Fund
Master Consulting Services Report as of December 31, 2023

Performance Detail (Gross of Fees)

	Market Value	% of Portfolio	Ending December 31, 2023			
			2023 Q4	Fiscal YTD	Inception	Inception Date
Total High Yield Fixed Income	\$3,060,328	7.9%	6.5%	--	8.2%	Apr-23
MacKay Shields High Yield Bond Fund Class 2	\$3,060,328	7.9%	6.5%	--	8.2%	Apr-23
ICE BofA US High Yield TR			7.1%	--	8.4%	Apr-23
Total Real Estate - Core	\$793,474	2.0%	-6.0%	-13.1%	-11.3%	Jul-22
ARA Core Property Fund, LP	\$793,474	2.0%	-6.0%	-13.1%	-11.3%	Jul-22
NCREIF ODCE Equal Weighted Net			-5.4%	-13.4%	-11.7%	Jul-22
Total Real Estate - Value Add	\$1,400,000	3.6%				
Boyd Watterson State Government Fund, LP	\$1,400,000	3.6%				
Total Private Equity	\$1,836,320	4.7%	7.8%	--	13.0%	May-23
Hamilton Lane Private Assets Fund - Class I	\$1,836,320	4.7%	7.8%	--	13.0%	May-23
Total Cash Equivalents	\$1,766,311	4.5%				
PNC Checking Account	\$825,310	2.1%				
Cash Account	\$941,001	2.4%				

Note: UFCW-Giant Variable Annuity Fund Cash Account is invested in the Federated Hermes Govt Olig Prem SHS and yield as of December 31, 2023 is 5.30%.

UFCW-Giant Variable Annuity Fund
Master Consulting Services Report as of December 31, 2023

Account	Fee Schedule	Market Value As of 12/31/2023	% of Portfolio	Estimated Annual Fee (\$)	Estimated Annual Fee (%)
Total Domestic Large Cap Equity	-	\$3,398,014	8.7%	--	--
Northern Trust Russell 1000 Growth Index Fund - Non-Lending	0.04% of Assets	\$1,754,444	4.5%	\$702	0.04%
Northern Trust Russell 1000 Value Index Fund - Non-Lending	0.04% of Assets	\$1,643,570	4.2%	\$657	0.04%
Total Domestic Small/Mid Cap Equity	-	\$1,991,514	5.1%	--	--
Northern Trust Collective Extended Index Fund	0.07% of Assets	\$1,991,514	5.1%	\$1,394	0.07%
Total International Equity	-	\$1,836,582	4.7%	--	--
Northern Trust EAFE Index Fund	0.08% of Assets	\$1,836,582	4.7%	\$1,469	0.08%
Total Global Tactical Asset Allocation	-	\$1,839,750	4.7%	--	--
First Eagle Global Value Fund, LP	0.75% of Assets	\$1,839,750	4.7%	\$13,798	0.75%
Investment Grade Fixed Income	-	\$21,033,843	54.0%	--	--
Chartwell Investment Partners	0.25% of First 20.0 Mil, 0.20% of Next 30.0 Mil, 0.15% Thereafter	\$21,033,843	54.0%	\$52,068	0.25%
Total High Yield Fixed Income	-	\$3,060,328	7.9%	--	--
Mackay Shields High Yield Bond Fund Class 2	0.45% of Assets	\$3,060,328	7.9%	\$13,771	0.45%
Total Real Estate - Core	-	\$793,474	2.0%	--	--
ARA Core Property Fund, LP	1.10% of Assets	\$793,474	2.0%	\$8,728	1.10%
Total Real Estate - Value Add	-	\$1,400,000	3.6%	--	--
Boyd Watterson State Government Fund, LP	-	\$1,400,000	3.6%	--	--

Total Fund
\$39.0 Million and 100.0% of Fund

Account	Fee Schedule	Market Value As of 12/31/2023	% of Portfolio	Estimated Annual Fee (\$)	Estimated Annual Fee (%)
Total Private Equity	-	\$1,836,320	4.7%	--	--
Hamilton Lane Private Assets Fund - Class I	1.50% of Assets	\$1,836,320	4.7%	\$27,545	1.50%
Total Cash Equivalents	-	\$1,766,311	4.5%	--	--
PNC Checking Account	-	\$825,310	2.1%	--	--
Cash Account	-	\$941,001	2.4%	--	--
Investment Management Fee		\$38,956,136	100.0%	\$120,133	0.31%

Note: The above fee schedules may not include incentive fees, operating expenses, custodian fees, or other administrative costs.

Index Disclosure

- 65% MSCI World Value Index/35% FTSE WGBI - Index listed for illustrative purposes.
- The NCREIF Fund Index - Open End Diversified Core Equity (NFI-ODCE) is a non-investable, time-weighted index comprised of the time weighted returns of approximately 40 open-end commingled funds pursuing a core private real estate investment strategy. The constituent funds qualify for inclusion in the NFI-ODCE based on specific criteria regarding their percentage of net assets invested in private equity real estate, geography, property type, life cycle, diversification and use of leverage. Constituent funds must also comply with the NCREIF PREA Reporting Standards, including annual audits, quarterly valuations and time-weighted returns. The NFI-ODCE returns are mainly driven by the underlying property investments in the constituent funds but can also be impacted by each funds use of leverage, cash balances, fund costs, etc. Returns shown are for the NFI-ODCE Equal Weight Index (fund constituents are equally-weighted), net of fees.

Footnotes

- Values, flows, and returns for all commingled funds, mutual funds, partnerships, and all other alternative assets are provided by the firm managing the assets and cannot be independently verified by IPS.
- Separately managed account returns are calculated by IPS using custodian data.
- The net of fees returns in this report are estimated. Fees do not include: the investment consulting fee paid to IPS, custodian fees, or other administrative costs.
- The following manager is valued as of initial capital called:
 - Boyd Watterson State Government Fund, LP



UFCW-Giant Variable Annuity Fund

Preliminary Monthly Performance Update

Period Ended

January 31, 2024

Total Fund Growth of Assets	
-----------------------------	--

	Last Month
Beginning Market Value	\$38,956,136
Net Cash Flow	\$946,328
Net Investment Change	\$87,096
Ending Market Value	\$39,989,560

- The Fund's fiscal year end is December 31st.

UFCW-Giant Variable Annuity Fund
Preliminary Monthly Performance Update as of January 31, 2024

Current vs. Policy						
	Current	Current	Policy	Policy Range	Difference	Difference
Domestic Large Cap Equity	\$3,443,467	8.6%	7.5%	2.5% - 12.5%	1.1%	\$444,250
Domestic Small/Mid Cap Equity	\$1,943,672	4.9%	5.0%	0.0% - 10.0%	-0.1%	-\$55,806
International Equity	\$1,844,134	4.6%	5.0%	0.0% - 10.0%	-0.4%	-\$155,344
Global Tactical Asset Allocation	\$1,846,506	4.6%	5.0%	0.0% - 10.0%	-0.4%	-\$152,972
Investment Grade Fixed Income	\$20,596,817	51.5%	52.5%	47.5% - 57.5%	-1.0%	-\$397,702
High Yield Fixed Income	\$3,069,211	7.7%	7.5%	2.5% - 12.5%	0.2%	\$69,994
Real Estate - Core	\$793,474	2.0%	5.0%	0.0% - 10.0%	-3.0%	-\$1,206,004
Real Estate - Value Add	\$2,800,000	7.0%	7.5%	2.5% - 12.5%	-0.5%	-\$199,217
Private Equity	\$1,836,320	4.6%	5.0%	0.0% - 10.0%	-0.4%	-\$163,158
Cash Equivalents	\$1,815,959	4.5%	0.0%	0.0% - 0.0%	4.5%	\$1,815,959
Total	\$39,989,560	100.0%	100.0%			

- Policy adopted March 2023; effective January 2024.

UFCW-Giant Variable Annuity Fund

Preliminary Monthly Performance Update as of January 31, 2024

Performance Detail (Net of Fees)

	Market Value	% of Portfolio	Ending January 31, 2024 1 Mo
Total Fund	\$39,989,560	100.0%	0.2%
Total Domestic Large Cap Equity	\$3,443,467	8.6%	1.3%
Northern Trust Russell 1000 Growth Index Fund - Non-Lending	\$1,798,153	4.5%	2.5%
<i>Russell 1000 Growth</i>			2.5%
Northern Trust Russell 1000 Value Index Fund - Non-Lending	\$1,645,315	4.1%	0.1%
<i>Russell 1000 Value</i>			0.1%
Total Domestic Small/Mid Cap Equity	\$1,943,672	4.9%	-2.4%
Northern Trust Collective Extended Index Fund	\$1,943,672	4.9%	-2.4%
<i>Dow Jones U.S. Completion Total Stock Market</i>			-2.4%
Total International Equity	\$1,844,134	4.6%	0.4%
Northern Trust EAFE Index Fund	\$1,844,134	4.6%	0.4%
<i>MSCI EAFE</i>			0.6%
Total Global Tactical Asset Allocation	\$1,846,506	4.6%	0.4%
First Eagle Global Value Fund, LP	\$1,846,506	4.6%	0.4%
<i>65% MSCI World Index/35% FTSE WGBI</i>			0.2%
<i>65% MSCI World Value Index/35% FTSE WGBI</i>			-0.4%

UFCW-Giant Variable Annuity Fund

Preliminary Monthly Performance Update as of January 31, 2024

Performance Detail (Net of Fees)

	Market Value	% of Portfolio	Ending January 31, 2024 1 Mo
Investment Grade Fixed Income	\$20,596,817	51.5%	0.3%
Chartwell Investment Partners	\$20,596,817	51.5%	0.3%
Bloomberg US Govt/Credit Int TR			0.2%
Total High Yield Fixed Income	\$3,069,211	7.7%	0.3%
MacKay Shields High Yield Bond Fund Class 2	\$3,069,211	7.7%	0.3%
ICE BofA US High Yield TR			0.0%
Total Real Estate - Core	\$793,474	2.0%	
ARA Core Property Fund, LP	\$793,474	2.0%	
Total Real Estate - Value Add	\$2,800,000	7.0%	
Boyd Watterson State Government Fund, LP	\$1,400,000	3.5%	
Intercontinental U.S. Real Estate Investment Fund	\$1,400,000	3.5%	
Total Private Equity	\$1,836,320	4.6%	
Hamilton Lane Private Assets Fund - Class I	\$1,836,320	4.6%	
Total Cash Equivalents	\$1,815,959	4.5%	
PNC Checking Account	\$1,771,638	4.4%	
Cash Account	\$44,320	0.1%	

Note: UFCW-Giant Variable Annuity Fund Cash Account is invested in the Federated Hermes Govt Oblig Prem SHS and yield as of January 31, 2024 is 5.27%.

UFCW-Giant Variable Annuity Fund

Preliminary Monthly Performance Update as of January 31, 2024

Performance Detail (Gross of Fees)

	Market Value	% of Portfolio	Ending January 31, 2024 1 Mo
Total Fund	\$39,989,560	100.0%	0.2%
Total Domestic Large Cap Equity	\$3,443,467	8.6%	1.3%
Northern Trust Russell 1000 Growth Index Fund - Non-Lending	\$1,798,153	4.5%	2.5%
<i>Russell 1000 Growth</i>			2.5%
Northern Trust Russell 1000 Value Index Fund - Non-Lending	\$1,645,315	4.1%	0.1%
<i>Russell 1000 Value</i>			0.1%
Total Domestic Small/Mid Cap Equity	\$1,943,672	4.9%	-2.4%
Northern Trust Collective Extended Index Fund	\$1,943,672	4.9%	-2.4%
<i>Dow Jones U.S. Completion Total Stock Market</i>			-2.4%
Total International Equity	\$1,844,134	4.6%	0.4%
Northern Trust EAFE Index Fund	\$1,844,134	4.6%	0.4%
<i>MSCI EAFE</i>			0.6%
Total Global Tactical Asset Allocation	\$1,846,506	4.6%	0.4%
First Eagle Global Value Fund, LP	\$1,846,506	4.6%	0.4%
<i>65% MSCI World Index/35% FTSE WGBI</i>			0.2%
<i>65% MSCI World Value Index/35% FTSE WGBI</i>			-0.4%

UFCW-Giant Variable Annuity Fund

Preliminary Monthly Performance Update as of January 31, 2024

Performance Detail (Gross of Fees)

	Market Value	% of Portfolio	Ending January 31, 2024 1 Mo
Investment Grade Fixed Income	\$20,596,817	51.5%	0.3%
Chartwell Investment Partners	\$20,596,817	51.5%	0.3%
Bloomberg US Govt/Credit Int TR			0.2%
Total High Yield Fixed Income	\$3,069,211	7.7%	0.3%
MacKay Shields High Yield Bond Fund Class 2	\$3,069,211	7.7%	0.3%
ICE BofA US High Yield TR			0.0%
Total Real Estate - Core	\$793,474	2.0%	
ARA Core Property Fund, LP	\$793,474	2.0%	
Total Real Estate - Value Add	\$2,800,000	7.0%	
Boyd Watterson State Government Fund, LP	\$1,400,000	3.5%	
Intercontinental U.S. Real Estate Investment Fund	\$1,400,000	3.5%	
Total Private Equity	\$1,836,320	4.6%	
Hamilton Lane Private Assets Fund - Class I	\$1,836,320	4.6%	
Total Cash Equivalents	\$1,815,959	4.5%	
PNC Checking Account	\$1,771,638	4.4%	
Cash Account	\$44,320	0.1%	

Note: UFCW-Giant Variable Annuity Fund Cash Account is invested in the Federated Hermes Govt Oblig Prem SHS and yield as of January 31, 2024 is 5.27%.

Index Disclosure

- 65% MSCI World Value Index/35% FTSE WGBI - Index listed for illustrative purposes.

Footnotes

- Values, flows, and returns for all commingled funds, mutual funds, partnerships, and all other alternative assets are provided by the firm managing the assets and cannot be independently verified by IPS.
- Separately managed account returns are calculated by IPS using custodian data.
- The net of fees returns in this report are estimated. Fees do not include: the investment consulting fee paid to IPS, custodian fees, or other administrative costs.
- The following managers are valued as of December 31, 2023, plus or minus flows:
 - ARA Core Property Fund, LP
 - Hamilton Lane Private Assets Fund - Class I
- The following managers are valued as of initial capital call:
 - Boyd Watterson State Government Fund, LP
 - Intercontinental U.S. Real Estate Investment Fund
- In January 2024, \$900,000 was transferred from cash equivalents (Cash Account) to real estate - value add (Intercontinental U.S. Real Estate Investment Fund).
- In January 2024, \$500,000 was transferred from investment grade fixed income (Chartwell Investment Partners) to real estate - value add (Intercontinental U.S. Real Estate Investment Fund).



ASSET ALLOCATION REVIEW

UFCW-Giant Variable Annuity Fund

March 2024



Asset Allocation Overview

- The asset allocation review is provided to assist the Trustees in identifying portfolios that meet the investment objectives, risk tolerance, and liquidity requirements of the Fund.
- The IPS Investment Committee develops and utilizes capital market assumptions for various asset classes to help determine the optimal mix of assets for an investment portfolio. These assumptions are forward-looking projections of an asset class' expected return and risk as measured by standard deviation or volatility of returns.
- All return assumptions are "net of fee" market or index returns and do not include alpha or excess return expected to be generated through active management. Return assumptions are the average expected return over the next 10 – 20 years and not the expected return in any given year.
- IPS capital market assumptions are compared with various assumptions from other providers and published resources for reasonableness. The IPS Investment Committee reviews the assumptions on a semiannual basis but may adjust at anytime, as needed, based on severe market dislocations, sudden changes in interest rates, or extreme events that impact global markets, economic development, and the business cycle.
- IPS capital market assumptions are not a guarantee of future performance. Actual results may differ from the projections included in this review.
- The asset allocation modeling requires the mathematical construction of an efficient frontier of various portfolios with distinct asset allocations and risk and return characteristics. The modeling process also requires the imposition of constraints, so that the efficient frontier represents a prudently diversified portfolio with adequate consideration of the liquidity needs and investment time horizon. Unconstrained optimization frequently generates allocations that have superior risk/reward characteristics, but the resulting allocations may not be adequately diversified and/or may have inappropriate allocations to illiquid investments.
- The cashflows and liquidity constraints of the fund for which this asset allocation review is being presented were considered when developing the portfolios presented for consideration.
- IPS utilizes the Wilshire Compass system for asset allocation modeling and all returns are based on geometric calculation.

Annualized Expected Returns over 10-20 years

Equity Asset Class	Return	Risk
U.S. Large Cap	6.50%	15.50
U.S. Mid Cap	7.00%	17.50
U.S. Smid Cap	6.88%	19.00
U.S. Small Cap	6.75%	20.50
International Large Cap	7.50%	16.75
International Small Cap	8.00%	19.25
Emerging Markets	8.25%	20.50
Global Equity	7.00%	16.75

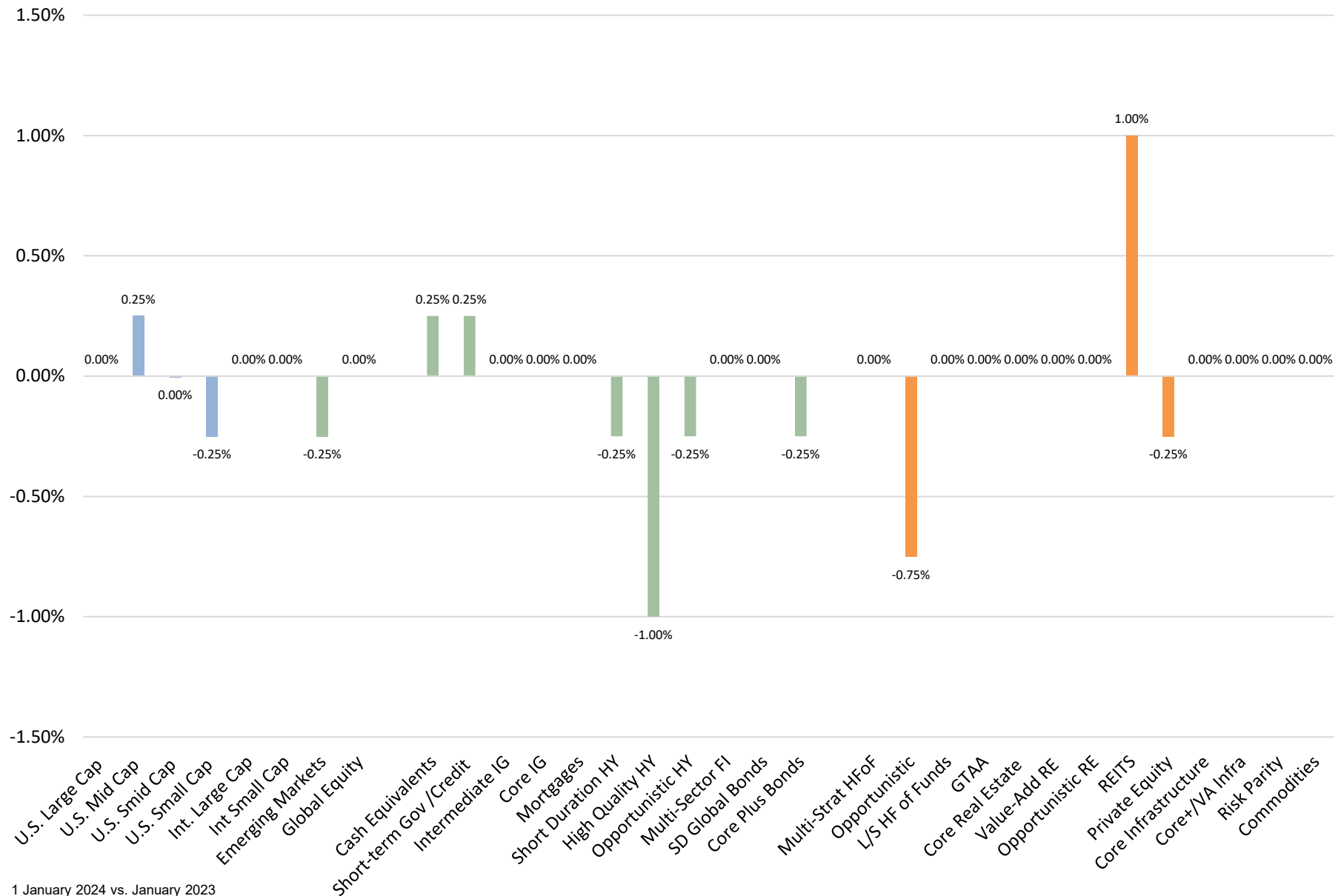
Fixed Income Asset Class	Return	Risk
Cash Equivalents	3.00%	0.50
Short-term Gov /Credit	3.75%	2.00
Intermediate Investment Grade	4.25%	3.50
Core Investment Grade	4.50%	4.00
Mortgages	4.75%	5.00
Short Duration High Yield	6.00%	6.00
High Quality High Yield	6.50%	8.00
Opportunistic High Yield	7.75%	8.50
Multi-Sector Fixed Income	3.50%	6.00
Short Duration Global Bonds	2.50%	5.00
Core Plus Bonds	4.75%	5.25

Alternatives Asset Class	Return	Risk
Multi-Strategy Hedge Fund of Funds	5.00%	6.00
Opportunistic Strategies	7.50%	15.00
L/S Hedge Fund of Funds	5.00%	9.00
Global Tactical Asset Allocation	6.50%	12.00
Core Real Estate	6.00%	9.00
Core Plus Real Estate	6.50%	10.25
Value-Add Real Estate	7.00%	11.50
Opportunistic Real Estate	9.00%	15.00
REITS	6.00%	20.00
Diversified Private Equity	9.75%	21.00
Core Infrastructure	6.25%	11.50
Core+/Value Add Infrastructure	8.25%	15.00
Private Credit	9.00%	13.00
Risk Parity	5.50%	16.00
Commodities	3.75%	17.00



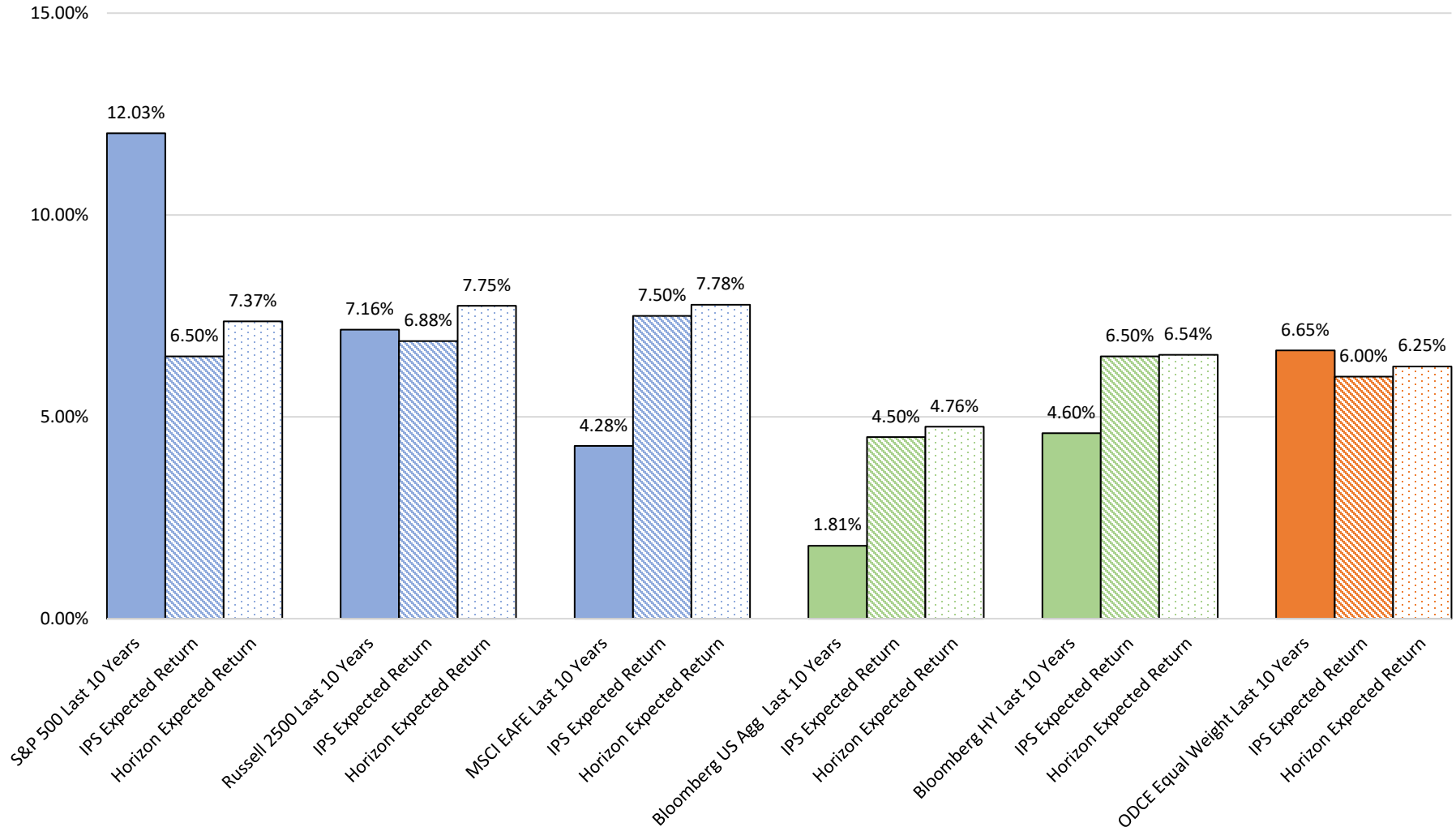
- IPS Investment Committee January 2024.
- Inflation expectation 2.5%.

Change in Expected Returns¹



¹ 1 January 2024 vs. January 2023

Historical Returns vs. Forward Looking Assumptions



- "Last 10 Years" returns are as of 12/31/2023.

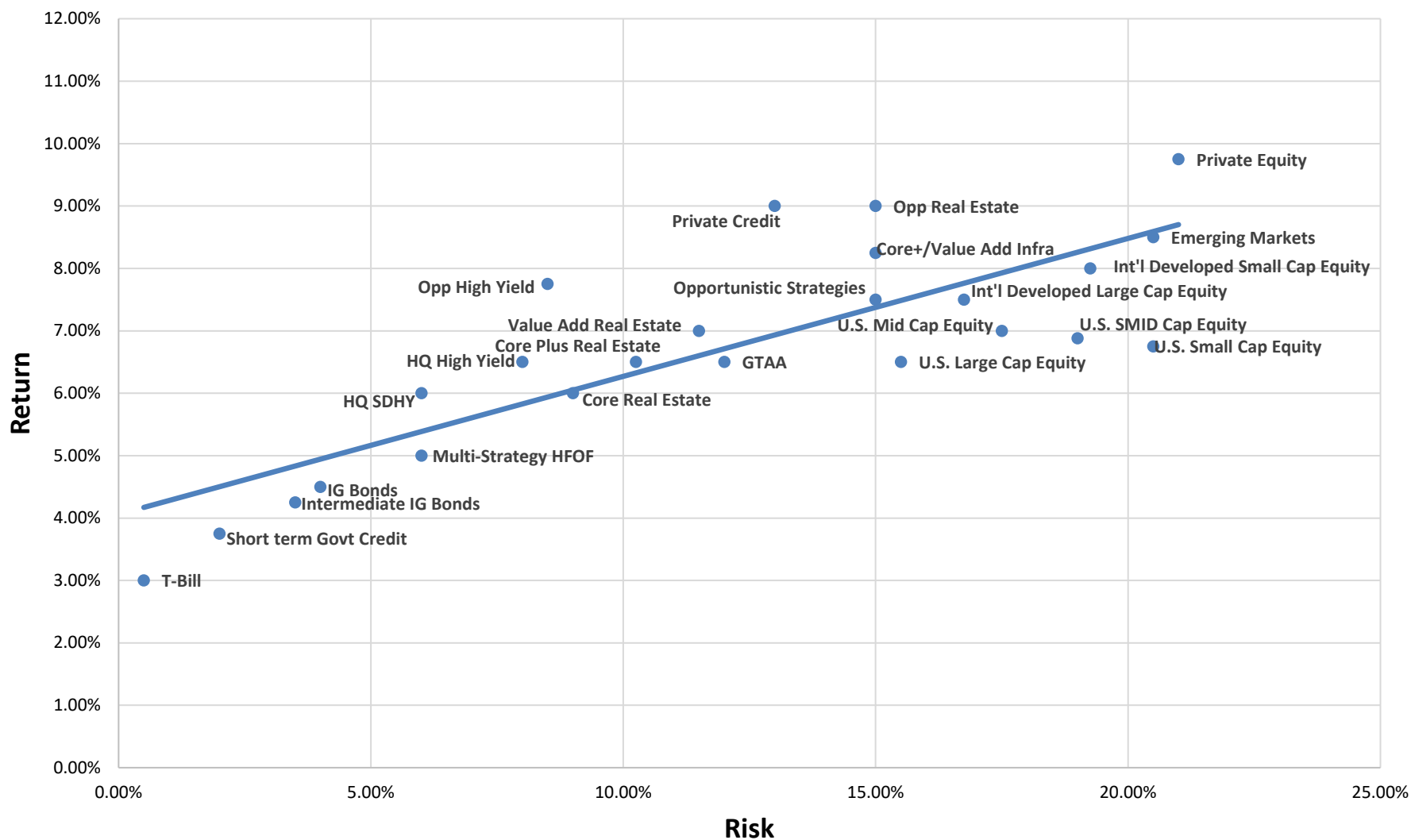
- "Horizon Expected Returns" are sourced from the Survey of Capital Market Assumptions (20-year horizon) published by Horizon Actuarial Services, LLC published in the August 2023 edition.

Asset Class Constraints

Total Domestic Equity	60%	Max
Domestic Large Cap Equity	20%	Min
Small, Mid and Smid Cap Equity	20%	Max
International Equity Large Cap	20%	Max
International Small Cap Equity	10%	Max
Cash	5%	Max
Fixed Investment Grade (Includes Short Term & Intermediate)	10%	Min
Opportunistic High Yield	12.5%	Max
High Yield Bonds (Includes Short Duration, High Quality, & Opportunistic)	20%	Max
Real Estate – Core	10%	Max
Real Estate – Core Plus	10%	Max
Real Estate – Value Add	10%	Max
Total Real Estate	20%	Max
Hedge Fund of Funds – Multi Strategy	5%	Max
Opportunistic Strategies	5%	Max
Private Credit	5%	Max
Global Tactical Asset Allocation	10%	Max
Private Equity	5%	Max
Total Alternatives	40%	Max

The constraints shown are used for modeling purposes only. They should not be construed as suggested or recommended allocations, or limits on allocations, to any asset class or investment strategy. Each client fund has different facts, circumstances, time horizon, risk tolerance levels, return objectives, investment preferences, cash flows, and liquidity requirements. As such, each client's investment policy may differ materially from the constraints shown above.

2024 Capital Market Assumptions



Asset Class Correlations

Assumption table:	US Large Cap Equity	US Mid Cap Equity	US Smid Cap Equity	US Small Cap Equity	Int'l Large Cap Equity	Int'l Small Cap Equity	Emerging Markets Equity	Cash	Short Term Govt / Credit	Interm. Invest. Grade	Core Invest. Grade	Short Duration High Yield	High Yield	Opp High Yield	Real Estate Core	Real Estate Core Plus	Real Estate Value Add	Private Equity	HFoF Multi-Strategy	Private Credit	Opp. Strategies	GTAA	Infrastructure
US Large Cap Equity	1.00																						
US Mid Cap Equity	0.96	1.00																					
US Smid Cap Equity	0.93	0.98	1.00																				
US Small Cap Equity	0.90	0.95	0.99	1.00																			
Int'l Equity	0.87	0.86	0.82	0.78	1.00																		
Int'l Small Cap Equity	0.84	0.87	0.83	0.79	0.95	1.00																	
Emerging Markets Equity	0.74	0.76	0.72	0.69	0.86	0.85	1.00																
Cash	-0.11	-0.13	-0.13	-0.13	-0.03	-0.10	0.00	1.00															
Short Term Govt / Credit	0.05	0.04	0.00	-0.03	0.13	0.13	0.17	0.36	1.00														
Int. Investment Grade	0.18	0.16	0.12	0.07	0.22	0.23	0.25	0.14	0.87	1.00													
Core Investment Grade	0.19	0.17	0.12	0.08	0.22	0.22	0.24	0.10	0.81	0.98	1.00												
Short Duration High Yield	0.65	0.72	0.67	0.62	0.66	0.71	0.65	-0.12	0.25	0.35	0.34	1.00											
High Yield	0.73	0.79	0.75	0.70	0.74	0.76	0.70	-0.12	0.23	0.37	0.37	0.93	1.00										
Opp. High Yield	0.70	0.77	0.73	0.69	0.70	0.73	0.67	-0.14	0.06	0.18	0.18	0.90	0.95	1.00									
Real Estate Core	0.28	0.20	0.20	0.30	0.20	0.12	0.16	0.06	-0.37	-0.33	-0.28	0.28	0.20	0.12	1.00								
Real Estate Core Plus	0.28	0.20	0.20	0.30	0.20	0.12	0.16	0.06	-0.37	-0.33	-0.28	0.28	0.20	0.12	1.00	1.00							
Real Estate Value Add	0.28	0.20	0.20	0.30	0.20	0.12	0.16	0.06	-0.37	-0.33	-0.28	0.28	0.20	0.12	1.00	1.00	1.00						
Private Equity	0.76	0.81	0.86	0.88	0.67	0.69	0.59	-0.15	-0.06	0.03	0.03	0.53	0.60	0.60	0.20	0.20	0.20	1.00					
HFoF Multi-Strategy	0.73	0.78	0.76	0.71	0.78	0.83	0.76	-0.06	0.01	0.07	0.08	0.64	0.67	0.71	0.08	0.08	0.08	0.70	1.00				
Private Credit	0.69	0.75	0.71	0.68	0.65	0.64	0.64	-0.09	-0.28	-0.16	-0.17	0.71	0.74	0.80	0.28	0.28	0.28	0.65	0.76	1.00			
Opportunistic Strategies	0.79	0.85	0.85	0.82	0.81	0.85	0.76	-0.12	-0.02	0.05	0.05	0.72	0.76	0.81	-0.02	-0.02	-0.02	0.82	0.91	0.82	1.00		
GTAA	0.94	0.91	0.87	0.83	0.95	0.92	0.83	-0.04	0.23	0.35	0.35	0.69	0.77	0.70	-0.01	-0.01	-0.01	0.77	0.75	0.62	0.78	1.00	
Infrastructure	0.62	0.60	0.56	0.52	0.67	0.62	0.57	-0.01	0.18	0.31	0.32	0.53	0.59	0.54	0.40	0.40	0.40	0.60	0.63	0.56	0.66	0.68	1.00

A correlation of 1.00 indicates two series move perfectly together while a -1.00 shows they move perfectly opposite one another.

Efficient Frontier Analysis



Efficient Frontier Report

Asset	Portfolio 1	Portfolio 2	Portfolio 3	Portfolio 4	Portfolio 5	Portfolio 6	Portfolio 7	Portfolio 8	Portfolio 9	Portfolio 10
US Large Cap Equity	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
US Mid Cap Equity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
US Smid Cap Equity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
US Small Cap Equity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Int'l Equity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.24
Int'l Small Cap Equity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	10.00
Emerging Markets	0.00	0.00	0.00	0.00	0.00	0.00	3.64	7.85	10.00	10.00
Cash	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Short Term Govt/Credit	39.81	24.26	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Int. Investment Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Core Investment Grade	20.72	31.00	41.28	42.76	38.28	31.53	21.36	15.30	10.00	10.00
Short Duration High Yield	0.00	0.00	0.00	0.00	0.00	0.97	7.50	7.50	0.00	0.00
High Yield	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.98	0.00
Opportunistic High Yield	3.47	6.13	8.79	12.50	12.50	12.50	12.50	12.50	12.50	12.50
Real Estate – Core	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Real Estate – Core Plus	3.44	5.21	6.97	9.74	10.00	10.00	10.00	10.00	10.00	5.26
Real Estate – Value Add	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Private Equity	0.00	0.00	0.00	0.00	4.22	5.00	5.00	5.00	5.00	5.00
HFoF - Multi Strategy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Private Credit	2.55	3.41	4.26	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Opportunistic Strategies	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.85	5.00	5.00
GTAA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Infrastructure	0.00	0.00	0.00	0.00	0.00	5.00	5.00	5.00	5.00	5.00
Return	5.41	5.69	5.98	6.26	6.54	6.80	7.05	7.29	7.52	7.71
Risk	4.45	4.85	5.27	5.70	6.30	6.99	7.78	8.65	9.56	10.87
Return/Risk	1.21	1.17	1.14	1.10	1.04	0.97	0.91	0.84	0.79	0.71

Compound annual return.

Asset Allocation Policy History

	2023
U.S. Large Cap	7.5%
U.S. SMID Cap	5.0%
International Large Cap	5.0%
GTAA	5.0%
Intermediate Fixed	52.5%
High Yield	7.5%
Real Estate Core	5.0%
Real Estate Value Add	7.5%
Private Equity	5.0%
Expected Return	5.98%
Expected Risk	5.48

	Increase allocation
	Decrease allocation
	New asset class
	Reclassification

Current Policy Comparison



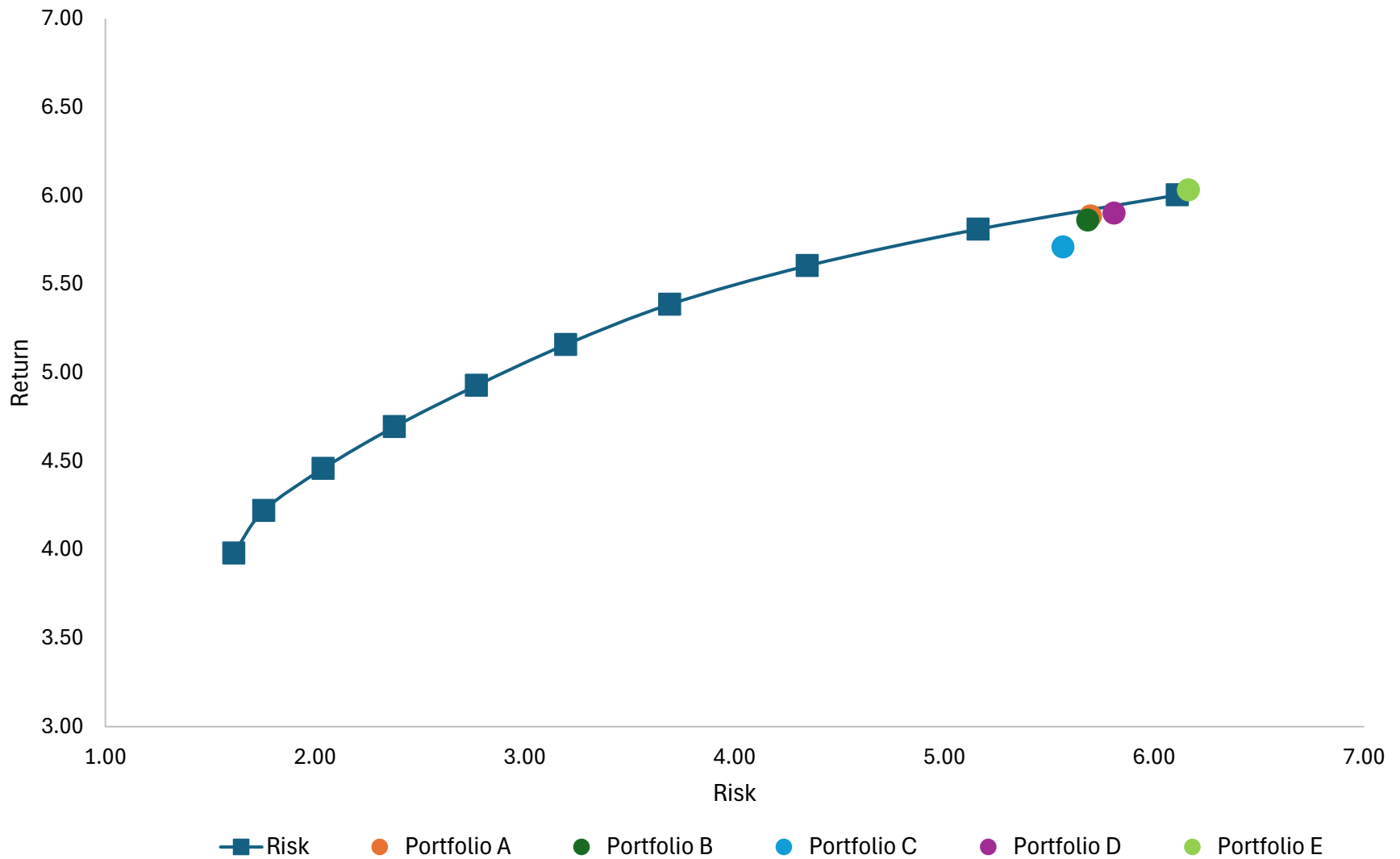
		% Equity Target			% Fixed Income Target		% Alternatives Target						Cash	Expected Return (net of fees)	Risk	Comments
		US LC Equity	US SMID Cap Equity	Int'l Equity	Fixed Income Interm	High Yield	Real Estate Core	Real Estate Core Plus	Real Estate Value Add	GTAA	Private Equity	Infra				
		17.5% Equity			60% Fixed Income		12.5% Real Estate			10% Alts						
1	UFCW-Giant Variable Annuity Fund Portfolio A	7.5	5.0	5.0	52.5	7.5	5.0	0.0	7.5	5.0	5.0	0.0	0.0	5.88%	5.70	Current Policy
2	Portfolio B	7.5	5.0	5.0	52.5	7.5	5.0	3.75	3.75	5.0	5.0	0.0	0.0	5.86%	5.68	Reclassifying Intercontinental as RE Core Plus
3	Portfolio C	8.6	4.9	4.6	51.5	7.7	2.0	3.5	3.5	4.6	4.6	0.0	4.5	5.71%	5.57	Allocation as of January 31, 2024 (including reclassifications)
4	Portfolio D	17.5% Equity			61.5% Fixed Income		11% Real Estate			10% Alts			0.0	5.90%	5.81	Increase High Yield and RE VA, reduce Inv Grade, RE Core and RE Core Plus
		7.5	5.0	5.0	51.5	10.0	2.5	3.5	5.0	5.0	5.0	0.0				
5	Portfolio E	17.5% Equity			57.5% Fixed Income		10% Real Estate			15% Alts			0.0	6.03%	6.16	Add Infra, reduce Inv Grade and RE Core
		7.5	5.0	5.0	50.0	7.5	2.5	3.75	3.75	5.0	5.0	5.0				

The Fund's hurdle rate per the Investment Policy statement is 5.50%.

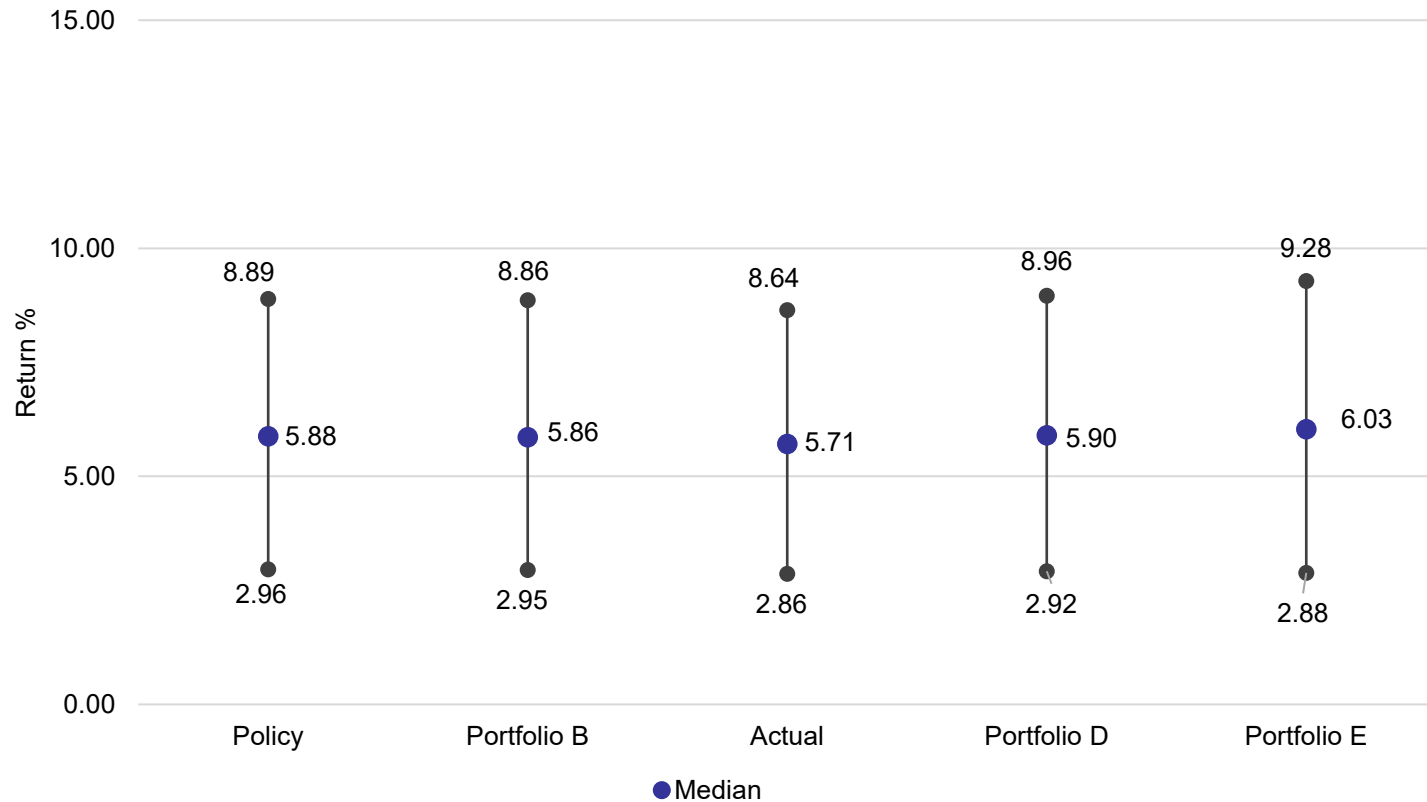
Scenarios are shown for illustrative purposes.

	Increase allocation
	Decrease allocation
	New asset class
	Reclassification

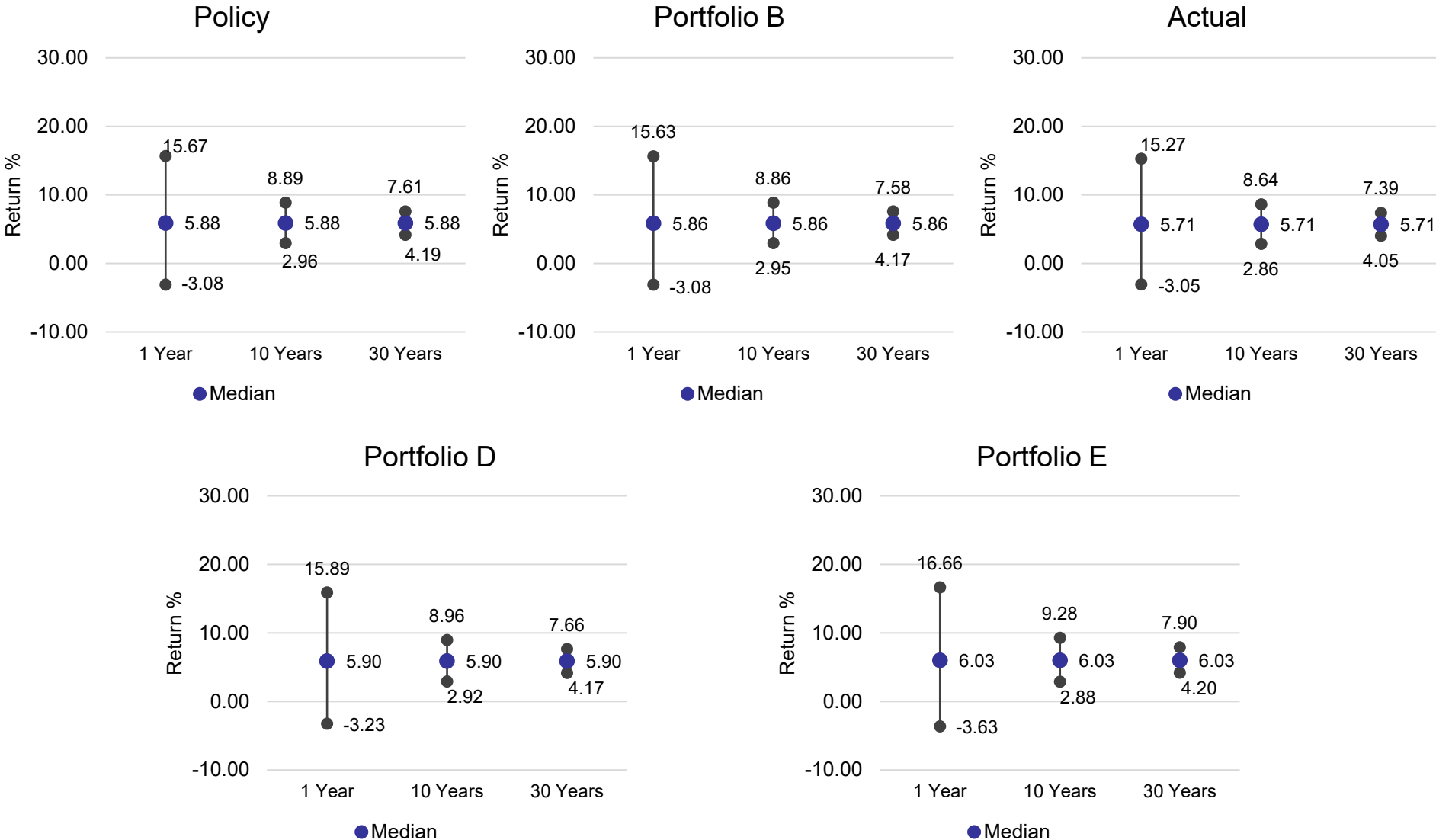
Efficient Frontier Comparison



Potential Distribution of Returns – 10 Year Horizon



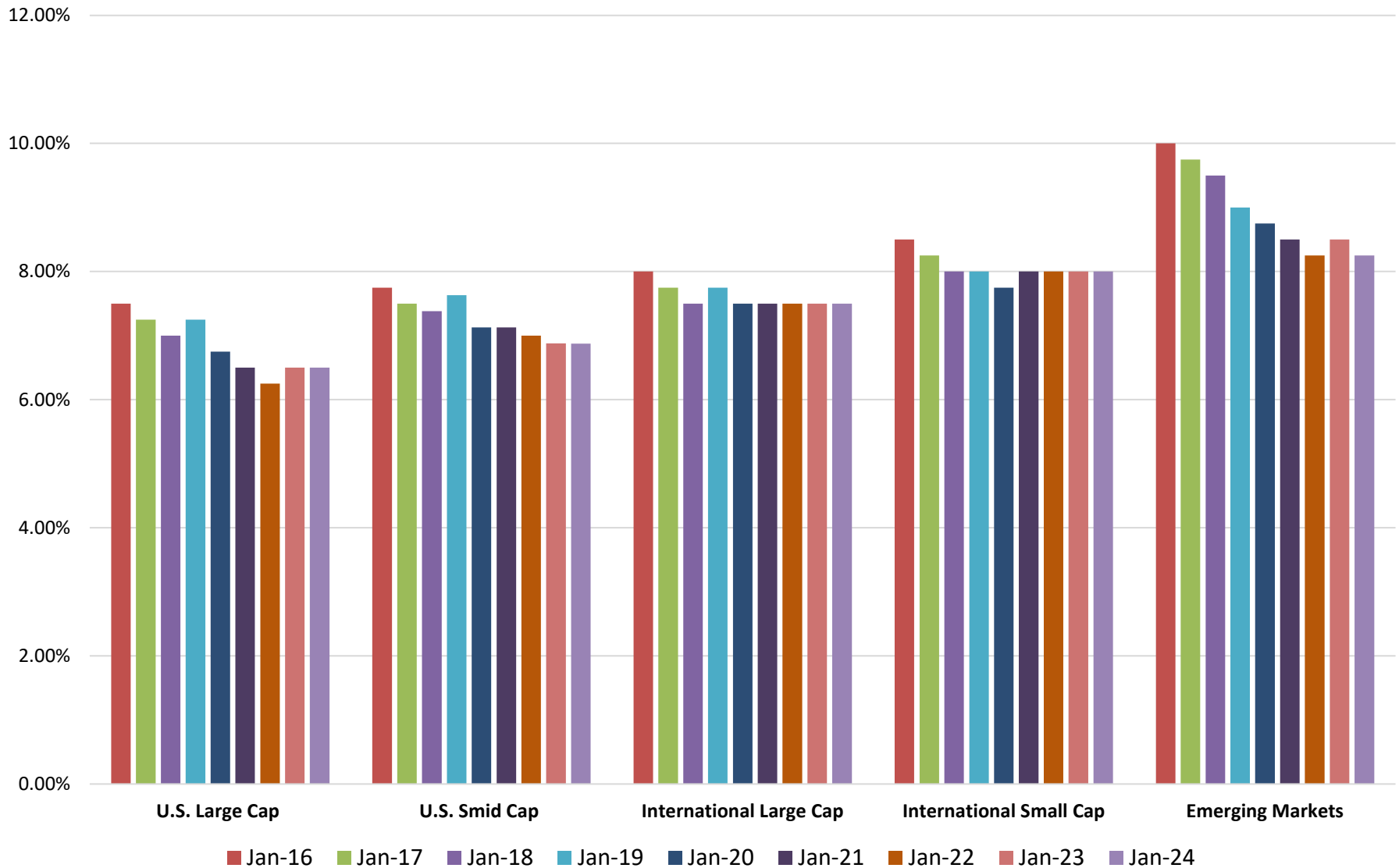
Potential Distribution of Returns



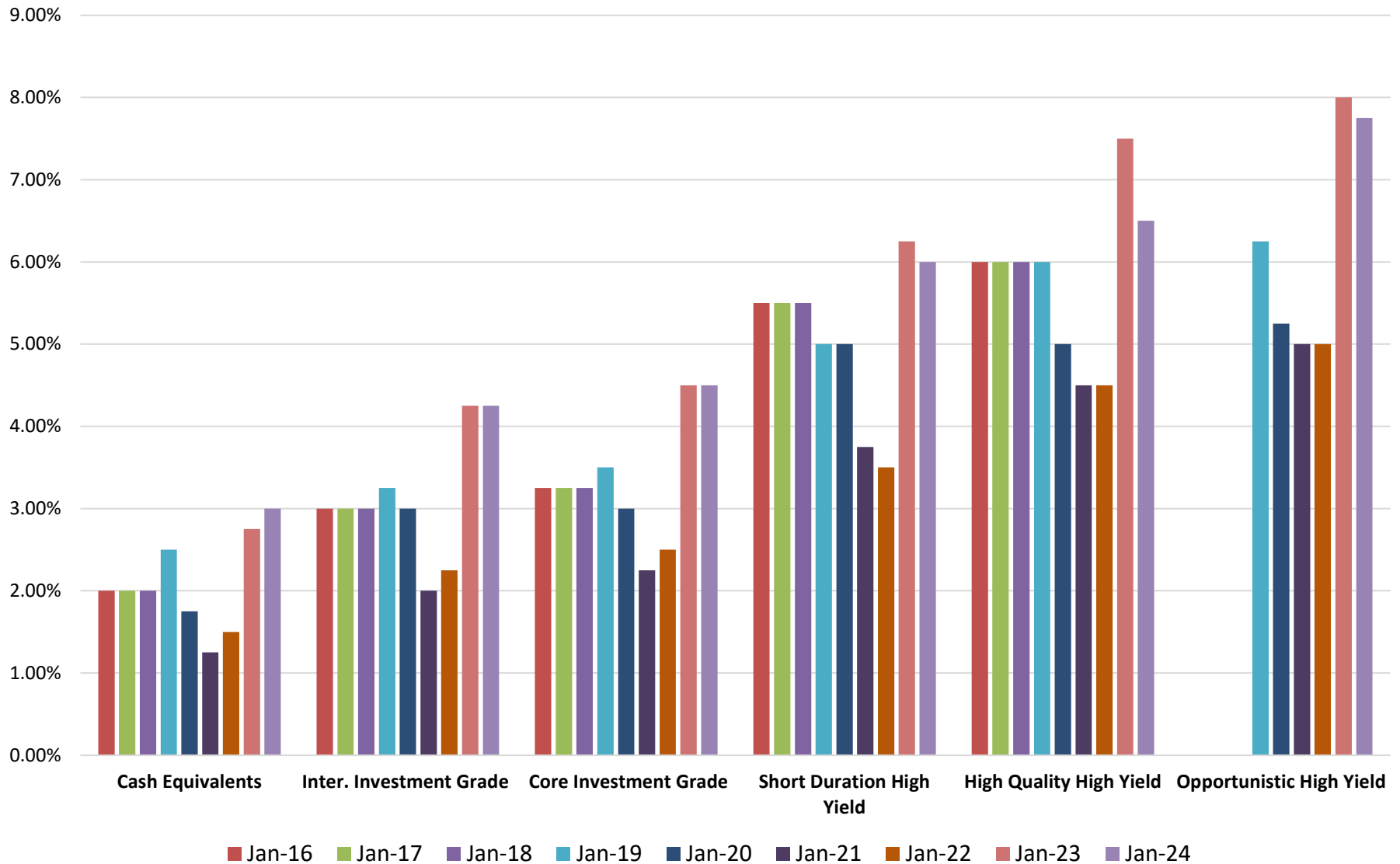
Potential distribution of returns is based on the Parametric Method. Best and worst outcomes are based on the 5th and 95th percentile, respectively.

APPENDIX

Public Equity – IPS Historical Capital Market Assumptions

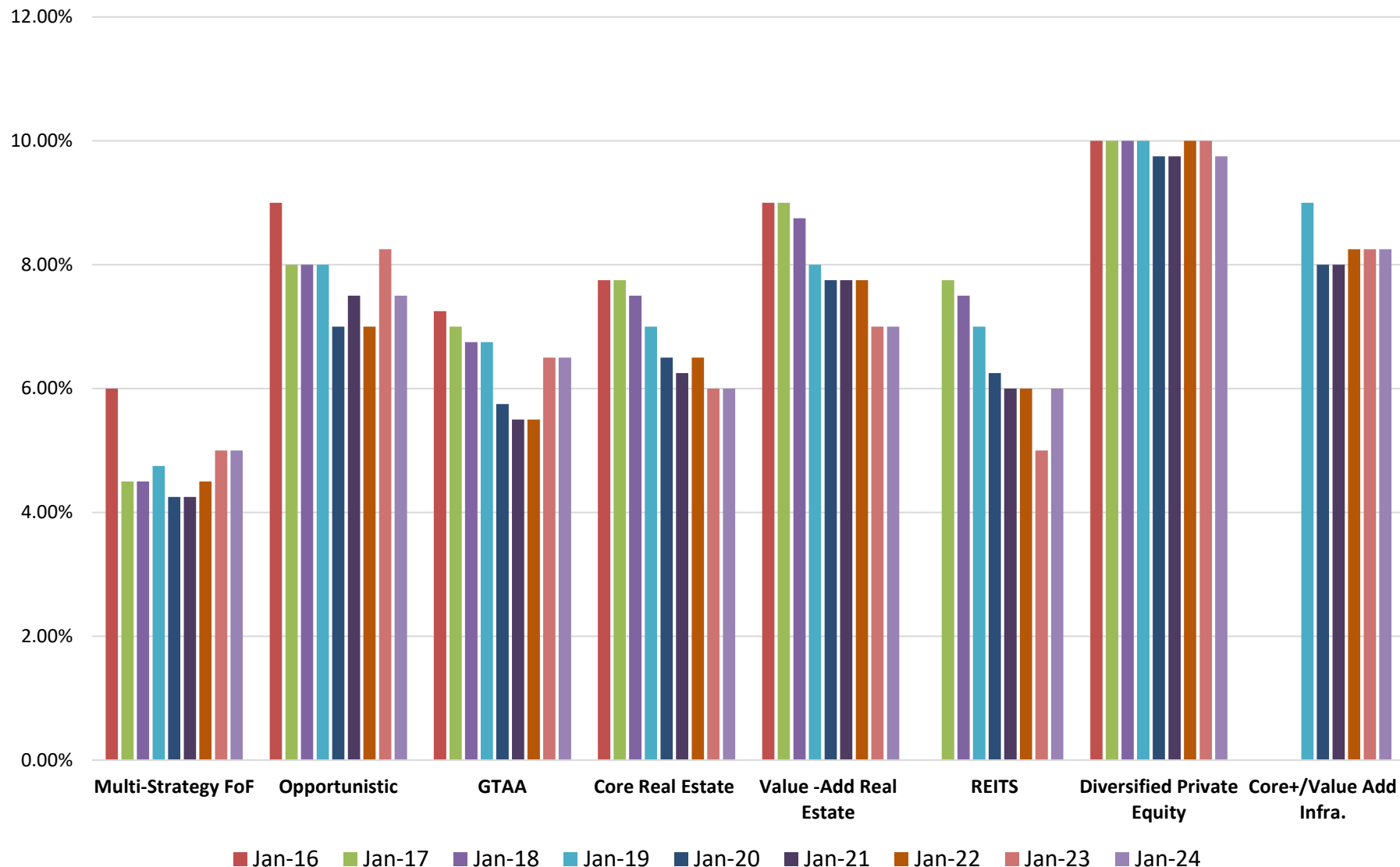


Fixed Income – IPS Historical Capital Market Assumptions



IPS began setting a capital market assumption for Opportunistic High Yield in January 2019.

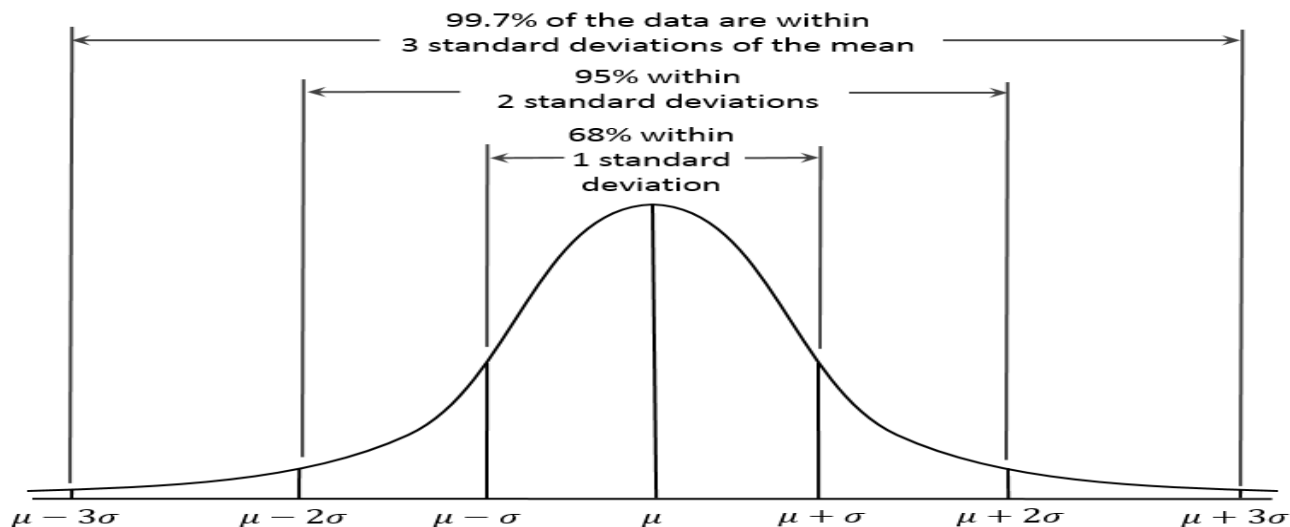
Alternative Investments – IPS Historical Capital Market Assumptions



IPS began setting a capital market assumption for Core+/Value Add Infrastructure in January 2019.

Explanation of Methodology

- The analysis in this presentation utilizes the parametric method, also known as the variance-covariance method
- The parametric method assumes a normal distribution of returns, commonly referred to as a bell-shaped curve.
 - For a normal distribution, 68% of the observations are within +/- one standard deviation, 95% are within +/- two standard deviations, and 99.7% are within +/- three standard deviations
- The chart below shows a normal distribution



- In reality, financial returns are not “normal;” they exhibit positive skewness (you get more positive returns above the mean than a normal distribution would predict) and kurtosis (the extreme “tails” of both positive and negative returns occur more often and are more extreme than a normal distribution would predict).



INFRASTRUCTURE

Educational Presentation

March 2024

What is Infrastructure?

- Infrastructure is defined as critical facilities, networks, systems and structures required for the effective operation of a business, state, or economy.
- Infrastructure investments typically require large capital outlays and often have monopolistic characteristics due to regulatory framework that limits competition.
- Infrastructure investments fall into several different sectors:

Transportation

Midstream

Power Generation

Communications

Utilities

Social

Infrastructure Investments by Sector

Transportation	Power Generation	Utilities	Midstream	Communications	Social
Ports & Container Terminals	Renewable (Wind, Solar, Hydro)	Electricity and Gas Distribution and Transmission	Gathering and Processing Facilities	Communication Towers	Education
Toll Roads	Conventional	Water	Crude Oil and Natural Gas Pipelines	Fiber Networks	Healthcare
Bridges & Tunnels	Coal, Oil, Natural Gas	Waste	Liquified Natural Gas Facilities	Data Centers	Government
Airports				Small Cell Networks	Buildings
Rail & Mass Transit					

Infrastructure Terminology to Know

Project Type

Brownfield

A project where an existing structure is modified or upgraded.

Greenfield

Development or construction of new assets on unused land.

Fund Structure

Closed-end Fund

An investment vehicle with a stated life where investors do not have control over liquidity. Closed-end infrastructure funds typically have a life of 10 years or more.

Open-end Fund

An investment vehicle with an indefinite life that provides investors the ability to redeem some or all their account value.

Infrastructure Terminology to Know

Revenue Stream

Availability Revenue

Revenue is dependent on the asset being maintained and available per the contract rather than based on usage.

Contracted Revenue

Project revenue based on contracts with counterparties

Regulated Revenue

Revenue is subject to government regulation

Key Characteristics of Infrastructure Assets

- Capital-intensive assets and projects which are difficult to replicate
- High barriers to entry and/or monopolistic market positions
- Low demand elasticity which limits correlation to economic conditions
- Long operational life
- Stable, predictable cash flows which are often contractual in nature and frequently linked to inflation

Infrastructure Strategies

Core

- Typically established assets which generate return through contractual payments from creditworthy counterparties and require little to no operational improvements.
- Given the low level of risk, have the lowest expected return among infrastructure strategies.
- Typically offered through open-end fund structures which provide investors the ability to access some or all of their capital, i.e., liquidity.

Core Plus

Value Add

- Frequently entail a greater degree of project development and/or operational management which provides an opportunity to enhance the return on the asset.
- Assets are typically in an earlier stage and/or have less predictable cash flows, resulting in a higher return target than core infrastructure strategies .
- Typically offered through closed end funds; however, some open-end core infrastructure funds will allocate a portion of their capital to these strategies.

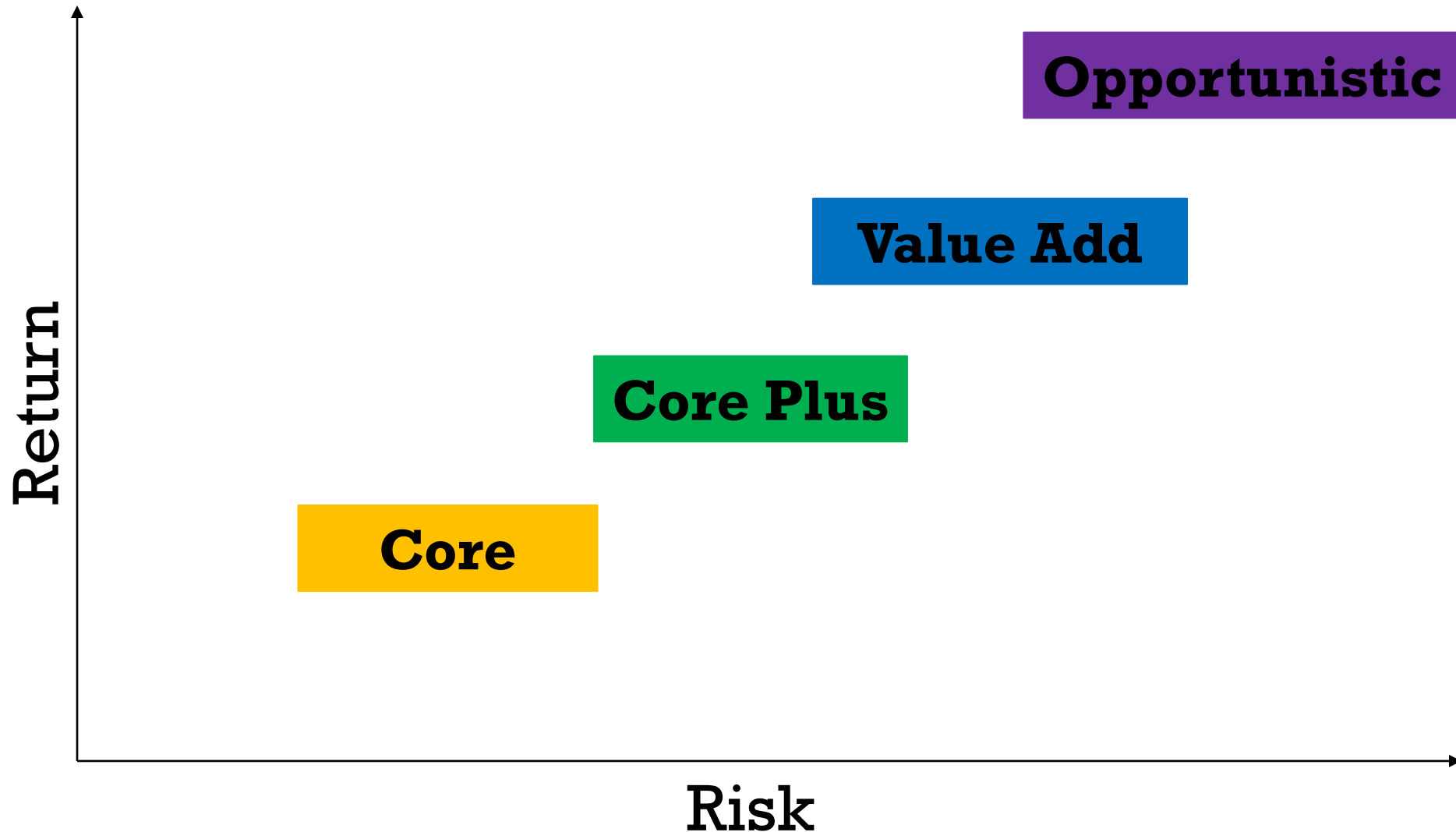
Opportunistic

- Typically focus on assets and projects which are early in their life and therefore have construction risk, non-contracted revenues, or may be subject to market demand
- Offered through closed-end funds and target a higher return than other infrastructure strategies given the higher risk level

Infrastructure Strategies

	Core	Core Plus	Value Add	Opportunistic
Return Target	5-7%	8-10%	9-12%	12%+
Asset Type	Existing stable asset	Existing asset with opportunity for performance enhancement	Existing asset requiring improvement	New development or turnaround of underperforming asset
Return Source	Primarily income	Income with some capital appreciation	Capital appreciation with some income	Capital appreciation
Leverage	High	Moderate	Moderate	Low
Investment Stage	Brownfield	Brownfield	Mostly brownfield	Greenfield
Fund Vehicle	Open-end	Open-end/ closed-end	Closed-end	Closed-end

Infrastructure Risk/Return Spectrum



Infrastructure Performance

Private infrastructure investments have produced attractive performance over the long term:

As of September 30, 2023	1 Year	5 Year	10 Year	15 Year
Private Infrastructure	8.7%	9.4%	10.7%	7.5%
U.S. Equities	21.6%	9.9%	11.9%	11.3%
Global Equities	20.2%	2.6%	3.5%	4.6%
U.S. Core Fixed Income	0.6%	0.1%	1.1%	2.5%
U.S. High Yield	10.3%	3.0%	4.2%	7.3%
Core Real Estate	-13.1%	5.2%	7.6%	4.7%
Hedge Funds	4.6%	3.4%	3.3%	2.8%

Private infrastructure: Hamilton Lane via Cobalt; U.S. Equities: S&P 500; Global Equities: MSCI All Country World (net); U.S. Core Fixed Income: Bloomberg Aggregate; U.S High Yield: Bloomberg U.S. High Yield; Core Real Estate: NCREIF ODCE Equal Weighted (net); Hedge Funds: HFRI FOF Composite

As with other private market investments, such as private equity and real estate, manager selection and vintage year diversification are key determinants of an investor's performance as significant dispersion exists among vintage years and the top-performing and bottom-performing managers.

Vintage Year IRRs

	2014	2015	2016	2017	2018	2019	2020	2021	2022
Top Quartile	15%	8%	13%	12%	12%	19%	12%	9%	12%
Median	11%	8%	11%	9%	8%	12%	7%	7%	7%
Bottom Quartile	9%	4%	7%	6%	7%	4%	4%	3%	4%

Source: Hamilton Lane Data via Cobalt (As of 9/30/23).

Portfolio Benefits of Infrastructure

Inflation Protection	The contractual payment stream associated with infrastructure investments typically have built-in inflation adjustments
Diversification	The return drivers of infrastructure investments tend to be different than the drivers of other asset classes
Reduced Volatility	The inelastic demand and the long-term revenue streams tied to infrastructure assets can make it less sensitive to economic cycles than other asset classes
Cash Yield	Many infrastructure strategies seek to generate a meaningful portion of the total return from income, which can be distributed to investors

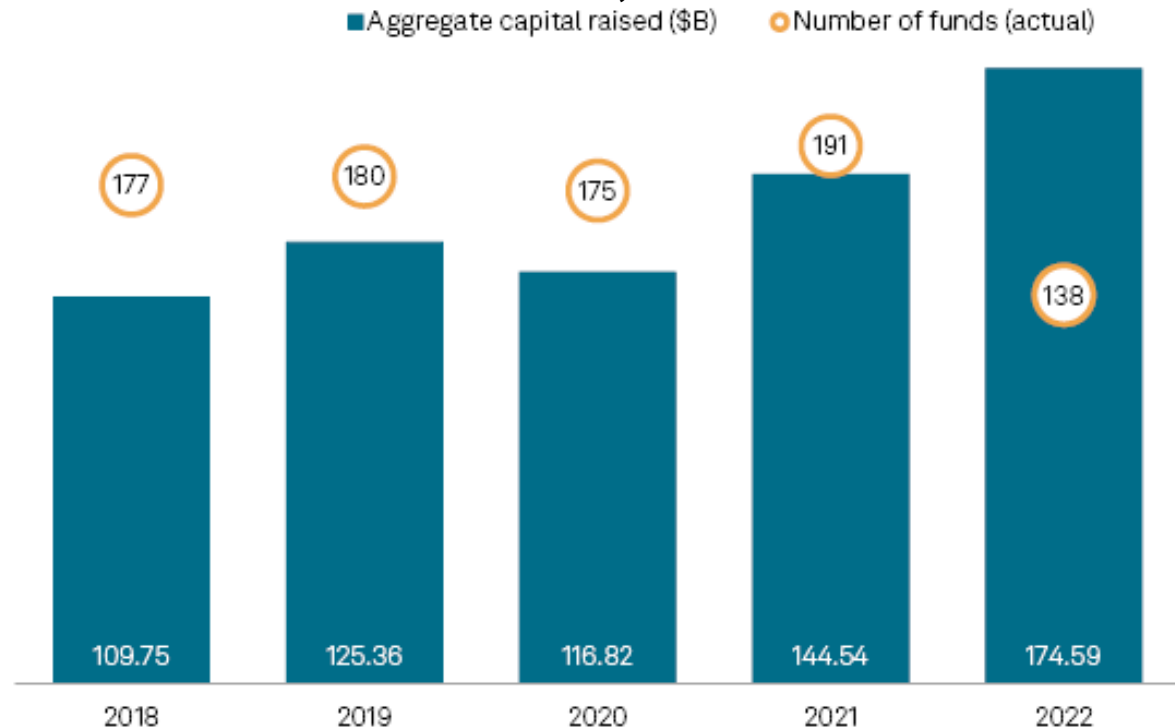
Key Risks of Infrastructure Investments

- **Liquidity Risk:** Due to the large size of assets, the limited number of potential buyers and regulatory approval requirements, opportunities to sell infrastructure assets may be limited. An open end fund provides a long-term investment approach that will not force asset sales and may provide added liquidity relative to closed-end funds; however, core funds may limit liquidity available to investors at certain times and have a lower return target.
- **Regulatory/Political Risk:** Changes in the regulatory or political environment can impact the infrastructure market given the important role assets typically play in the economy and society.
- **Technology Risk:** Infrastructure investments may be subject to disruption due to changing technology. For example, infrastructure assets focused on transporting fossil fuels may be impacted by the growth in energy generation from renewables (i.e., wind and solar). This dynamic also presents opportunities to invest in assets that will benefit from the disruption i.e., renewables, electric cars, etc.
- **Demand Risk:** Certain types of infrastructure assets that are correlated to economic growth (i.e., toll roads, airports, railroads, etc.) are subject to the risk that usage of the asset is below expectations, resulting in lower returns and the risk of default.
- **Interest Rate Risk:** Given their long life and contractual payment stream, infrastructure assets are sensitive to changes in interest rates, as higher rates can increase financing costs and reduce the present value of projected cash flows.
- **Benchmark Risk:** There are few publicly-available infrastructure benchmarks available in order to evaluate the performance of infrastructure investments.

Infrastructure Market Activity

Fundraising for infrastructure strategies has been robust in recent years as investors seek additional sources of return and portfolio diversification. Fundraising in 2022 represented more than a 100% increase from five years earlier, though fundraising in 2023 is expected to have declined sharply as fundraising across all private markets slowed dramatically during the year.

Infrastructure funds launched, 2018-2022



Recommended Implementation

- With reduced long-term return expectations for traditional asset classes, infrastructure may add value through increased returns and improved diversification when accessed through appropriate managers and strategies.
- The cash flow needs of a Fund should be analyzed before considering a commitment to infrastructure given the long lock-ups and lack of liquidity for closed-end funds. **IPS generally suggests consideration of a 2.5% - 5.0% allocation to the asset class given its liquidity restrictions.**
- If Trustees are interested in an allocation to infrastructure, IPS suggests focusing on managers and strategies with the following characteristics to best capture the benefits of the asset class:
 - Managers whose primary business is infrastructure, with deep research teams with access to a breadth of potential deals, the ability to source less competitive deals, and strong track records across multiple vintage year funds.
 - Managers that have experience working with Taft-Hartley benefit funds and public retirement funds and will agree to fiduciary status under ERISA as appropriate.
 - Strategies which are diversified by sector and geography.
- In order to reduce the potential risks of investing in the asset class, IPS recommends allocations be diversified by strategy, vintage year, and fund manager.

Glossary of Investment Terminology

Total Return	The annual return on an investment including appreciation, depreciation and income (interest, dividends, net operating income).
Alpha	The excess return (positive or negative) generated by active portfolio management and security selection, relative to a benchmark.
Beta	A historical measure of an investment's volatility relative to the market. The beta of the market is 1.0 (as represented by a benchmark such as the S&P 500 Index). A beta of greater than 1.0 indicates an investment with greater volatility than the benchmark. A beta of less than 1.0 indicates less volatility than the benchmark.
Standard Deviation	Standard deviation is a statistical measurement of the dispersion of a set of data from its mean. The more spread apart the data are, the greater the standard deviation.
Risk	For an investment portfolio, risk is typically defined as the volatility of the returns, as measured by calculating the standard deviation. The risk does not necessarily indicate the risk of loss, but does indicate the risk of inconsistent returns.
Capture Ratio	Calculates how well a manager performs in a rising or falling market as a percentage of a benchmark. In a rising market, a percentage of 100 or better is preferred, and indicates the manager exceeded the benchmark (upside capture ratio). In a falling market, a percentage of less than 100 is preferred, indicating that the manager lost less than the benchmark (downside capture ratio).
Correlation	A statistical measure of how two asset classes perform in relation to each other. Asset classes with a correlation of 1.0 have perfect positive correlation (exactly the same). Assets with perfect negative correlation of -1.0 will perform equally but in opposite directions.
Efficient Frontier	A series of portfolios with the maximum expected return for any level of risk, which is calculated based on assumptions of risk, return and correlation. These portfolios are shown graphically on a risk and return chart, and represent the most efficient tradeoff between risk and return.
Market Cap	The dollar value of a corporation, which is calculated by multiplying the share price and the number of outstanding shares.
Large Cap	Stocks which typically have a market capitalization of \$20 billion or higher.
Mid Cap	Stocks which typically have a market capitalization of \$5 to \$20 billion.
Small Cap	Stocks which typically have a market capitalization of \$5 billion or less.
Geometric Calculation	Geometric Calculations are used when determining an annualized investment return and tends to dampen the effect of very high or very low values. The result is a number that is smaller than (or equal to) the arithmetic average of the values.
Compound Annual Returns	Compound annual returns show the annual investment return, assuming the investment grew at a constant rate, and reflects the impact of the time in the calculation of an investment return.
Return/Risk Ratio	The return/risk ratio is the expected return of an investment divided by the expected standard deviation (risk). When comparing return/risk ratios a higher value is presumed to be better than a lower value

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EPIC

May 3-5, 2023

The following investment managers and providers attended and helped to defray the cost of IPS' annual conference EPIC. EPIC is an educational conference addressing various issues related to employee benefit plans. IPS does not give preferential treatment to investment managers or any other provider that pays to attend EPIC.

Amalgamated Bank of Chicago	GoldenTree Asset Management	Oaktree Capital Management
American Realty Advisors	Great Lakes Advisors	Old Glory Asset Management
Ares Management	Hamilton Lane Advisors	Partners Group
Aristotle	Hardman Johnston Global Advisors	Patriot Financial Partners
ASB Real Estate Investments	HPS Partners	PNC Capital Advisors
Atlanta Capital Management	Intercontinental Real Estate Corp.	Post Advisory Group
Barrow Hanley Global Investors	Invesco Advisers, Inc.	Principal Financial Group
BentallGreenOak	Janus Henderson Investors	Principal Life Insurance
BNY Mellon Asset Management (Mellon)	John Hancock	Raymond James Investment Management
Boston Partners Global Investors	JP Morgan Asset Management	Richmond Capital Mgmt
Boyd Watterson Asset Management	Kearney Capital LLC	Schroders Investment Management
Capital Group	Kelson Group	Segall Bryant & Hamill
Chartwell Investment Partners	Lazard Asset Management	Sierra Investment Partners
Christenson Investment Partners	Loomis, Sayles & Company	Smith Graham & Co.
Columbia Threadneedle Investments	Lord Abbett & Co.	State Street Global Advisors
Constitution Capital Equity Partners	LSV Asset Management	Stonepeak Partners
Corbin Capital Partners	Lyrical Asset Management	Ullico Investment Company
Earnest Partners	MacKay Shields	Vanguard
Empower	McMorgan & Company	Victory Capital Management
EnTrust Global	Manning & Napier	Vista Underwriting
Fidelity Investments	Manulife	Washington Capital Management
First Eagle Investment Mgmt.	Mesirow Private Equity	WEDGE Capital Management
Foundry Partners	National Investment Services	Wellington Management Company
Fred Alger Management	National Real Estate Investors	Westfield Capital Management
GAMCO Asset Management	Neuberger Berman	Westport Capital Partners
GCM Grosvenor	Northern Trust Asset Management	William Blair & Company
Glouston Capital Partners	Nuveen Investment Group	Xponance