

Research Review

August 2023

Contrary to the broad-based gains posted through the first seven months of the year, performance across the financial markets in August left much to be desired, with sizable losses blanketing the primary asset classes and categories. The establishment of a new cyclical peak in U.S. interest rates, as proxied by the yield on the benchmark 10-year Treasury Note, sent ripples through the market during the month. Across global equities, returns were overwhelmingly negative, particularly among international and smaller capitalization stocks. Bond performance was mixed on the month, as the rise in rates pressured the rate-sensitive sectors, while credit-oriented sectors eked out modest gains. Across real assets, both real estate investment trusts (REITs) and global listed infrastructure suffered a pullback in performance. At the same time, broad commodity-related indices outperformed, renewing some concerns of a stagflationary regime.

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Economic Update

Resilient U.S. Labor Market Begins to Show Signs of Cooling

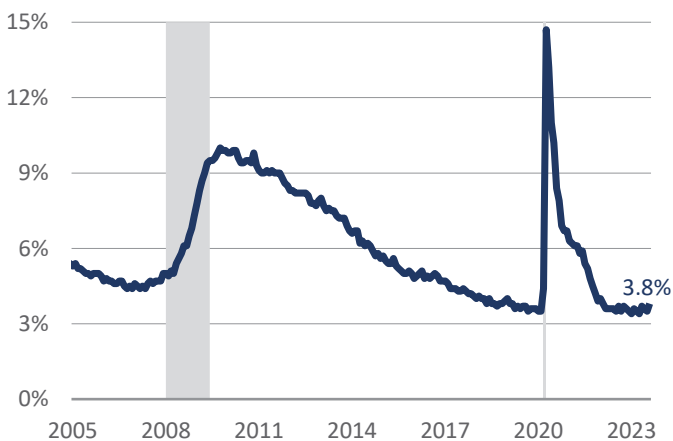
"The lackluster trend of employee productivity in the post-COVID environment has been somewhat alarming despite the narrative of alternative intelligence (AI) economic gains in recent quarters."

A key factor underpinning the U.S. economy's growth engine in the post-COVID era took a meaningful step back in August as the Bureau of Labor Statistics reported a 0.3 percentage point (ppt) month-over-month rise in the headline unemployment rate to 3.8%, versus a cyclical low of 3.4% measured in both January and April of 2023.

Often viewed as a key coincident economic indicator, trends across the labor market are a primary variable in estimating the stage of the broader economic cycle. A strengthening labor market is synonymous with economic expansion, a moderating labor market is consistent with a moderating business cycle, and a deteriorating labor market backdrop is a classic recessionary dynamic. August's 0.3 ppt rise in the headline rate of unemployment is consistent with late-expansion tendencies. As indicated by the graph of the U.S. unemployment rate, the labor market has been relatively directionless since spring 2022.

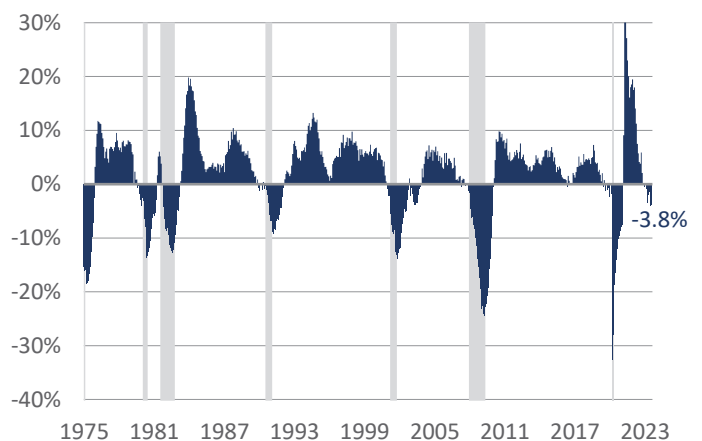
While the single-variable deterioration of the unemployment rate may seem like fodder for dismissal, broader gauges of the fundamental health of the labor market corroborate the recent deterioration. The Conference Board's Employment Trends Index (ETI), for example, has experienced flat-to-negative growth readings year-to-date.

U.S. UNEMPLOYMENT RATE AND BUSINESS CYCLES



Data sources: BLS, NBER, Bloomberg, L.P.;
Data as of August 2023.
Shaded areas represent periods of recession.

EMPLOYMENT TRENDS INDEX AND BUSINESS CYCLE



Data sources: Conference Board, NBER, Bloomberg, L.P.;
Data as of August 2023.
Shaded areas represent periods of recession.

Notably, this gauge—which weighs eight key variables, including first-time claims for unemployment insurance, trends across temporary employment, and the perception of whether jobs are “hard to get”—has registered nine negative annual growth readings across the last ten monthly observations.

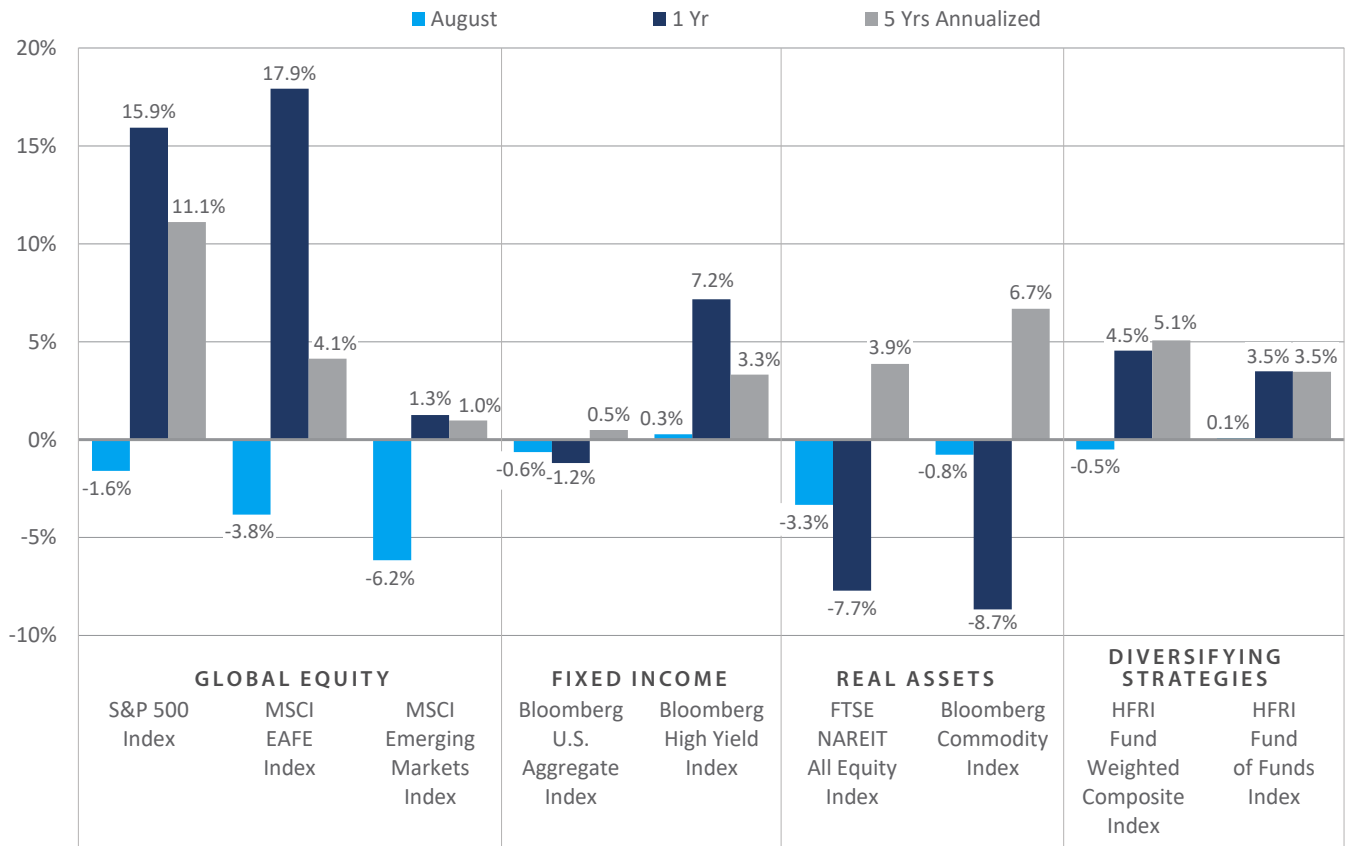
The lackluster trend of employee productivity in the post-COVID environment has been somewhat alarming despite the narrative of alternative intelligence (AI) economic gains in recent quarters. A simplistic read on this phenomenon includes one of the tightest labor market situations in a half-century combined with inflation-adjusted economic growth that has trended towards 2% over the trailing year.

In the quarters ahead, the combination of restrictive monetary policy and stubborn inflationary pressures—and the related tailwind behind employee compensation

proclivities—will likely be a recipe for continued weakness across the labor capital engine of the U.S. economy, a circumstance that demands the attention of investors and asset allocators.

To summarize, performance across the primary financial market asset classes and categories was overwhelmingly negative in August, as U.S. Treasury rates ascended to a new cyclical high and the labor market began to exhibit signs of advanced aging. Over the intermediate-term horizon, the Federal Reserve’s (Fed) efforts at engineering an economic soft landing in the wake of one of the worst cost-of-living increases in decades appear to be facing headwinds as one of the remaining expansionary factors succumbs to the grips of increasing monetary restraint.

Market Summary August 2023



Data source: Lipper, HedgeFund Research

Global Equity

Global equity markets produced negative returns over August, with emerging markets underperforming developed markets. Large caps outperformed small caps, continuing a trend that began in the first half of 2023. Market volatility increased due in part to increased interest rates in multiple markets, signs of European economic weakness, and renewed stress in the Chinese economy, most notably in the property market.

U.S. equity markets finished August with negative absolute returns. The S&P 500 Index declined as many large tech weights within the index experienced a pullback, weighing on the index's overall returns.

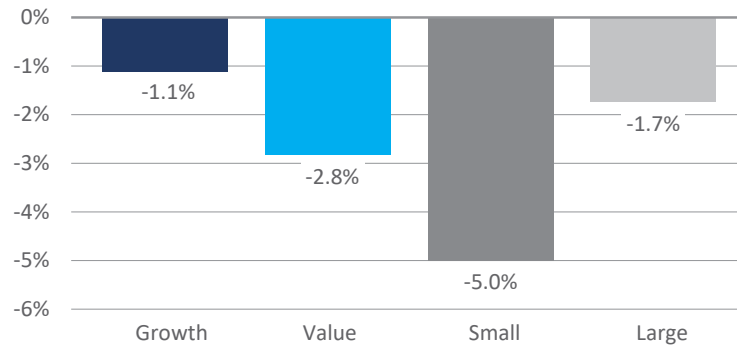
Eurozone shares declined as energy was the only sector to produce positive returns. The worst-performing sectors were those most sensitive to the economic backdrop. Like Europe, UK equities fell in August. Domestically-focused areas of the market, such as consumer discretionary, consumer staples, and industrials, struggled as UK macroeconomic data showed signs of deterioration.

Japanese equities produced mixed returns over the month—large caps underperformed while small and mid cap stocks outperformed. The Bank of Japan's policy adjustments at the end of July fueled a rise in Japanese government bond yields, negatively impacting large cap growth stocks. Increasing signs of tourism and improving quarter-over-quarter GDP growth data drove the outperformance of domestically-focused small and mid cap stocks.

Emerging market equities produced negative returns in the face of difficulties in China. Chinese property developers Country Garden and Evergrande weighed on the real estate sector, which has been an epicenter of challenges for China. Investor worries about slowing economic growth also acted as a headwind, prompting authorities to announce further economic stimulus, specifically in the real estate sector. Latin America underperformed as a region despite Brazilian authorities cutting interest rates and the nation's congress approving a new fiscal framework.

SMALL CAPS UNDERPERFORM OVER AUGUST

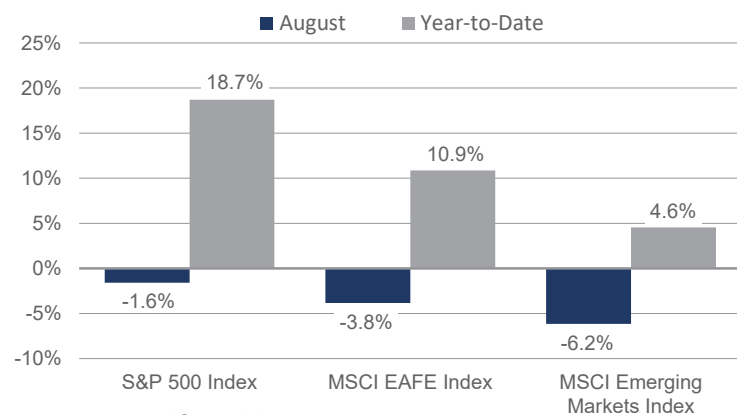
U.S. Style Returns



Data source: FTSE Russell

GLOBAL EQUITY MARKETS FINISH AUGUST WITH NEGATIVE RETURNS

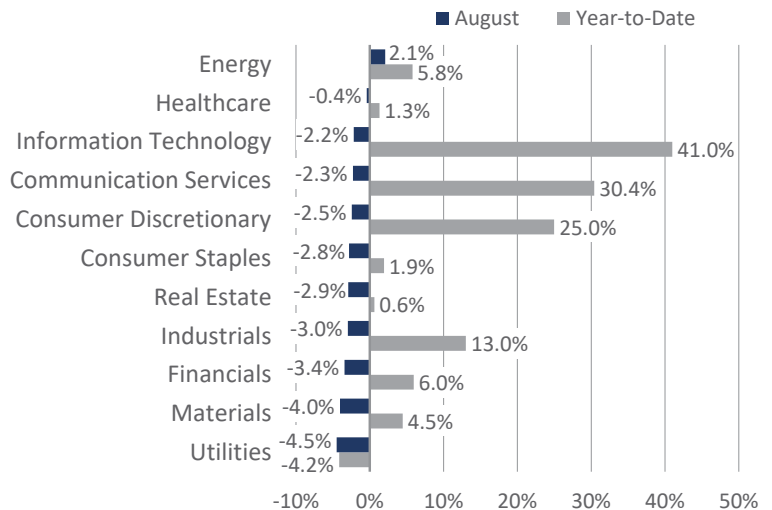
Equity Indices Performance (Returns in U.S. Dollars)



Data sources: S&P, MSCI

ENERGY FINISHES AUGUST AS THE ONLY SECTOR WITH POSITIVE RETURNS

S&P 500 Earnings Report



Data sources: MSCI, ACWI ; Data as of August 6, 2023.

Fixed Income

Interest rates rose during the month as rising commodity prices and resilient economic data challenged the peak disinflation narrative. Overall, the 10-year Treasury yield rose 0.12% to 4.09% after trading to a fresh cycle high of 4.34%. The bear steepener continued as the longer end of the yield curve rose more sharply than the front end. The majority of

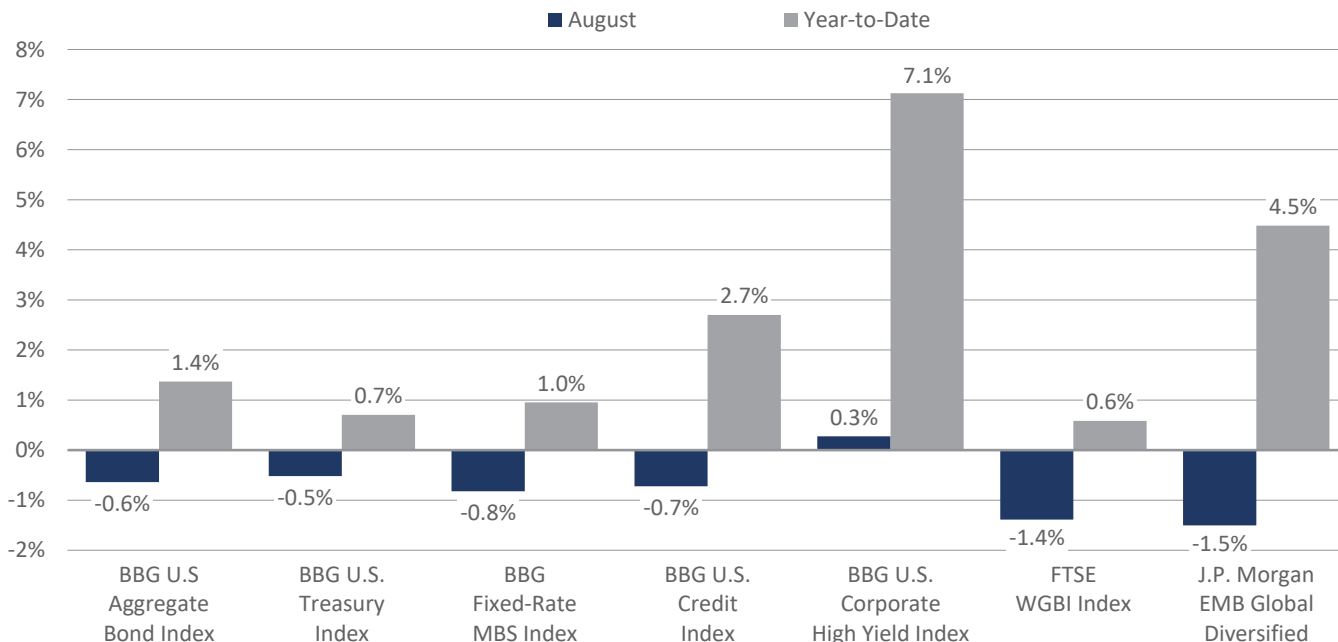
the yield curve remains in inverted territory. The spread between the 10-year and 2-year Treasuries narrowed 0.15%, reaching -0.76%.

At this year's Jackson Hole Economic Symposium, Fed Chair Powell's comments did not waiver from the Fed's commitment to bring inflation down to the 2% target. While

market reactions post-meeting were tempered relative to last year, Powell took the opportunity to push back against the notion that the Fed's 2% target could be pushed higher and would not commit to the path of policy moving forward, opting to remain data-dependent.

BOND RETURNS WERE BROADLY NEGATIVE IN AUGUST

Fixed Income Index Returns



Data sources: Federal Reserve, Bloomberg L.P.

Despite volatility in the equity markets, corporate credit sectors squeezed out mixed performance as carry and modest spread compression offset the impact of rising interest rates. Longer-duration investment grade corporates (IG) returns were negative, falling 0.8%, while higher-carry and high yield corporates (HY) credit eked out a small positive return. Credit spreads

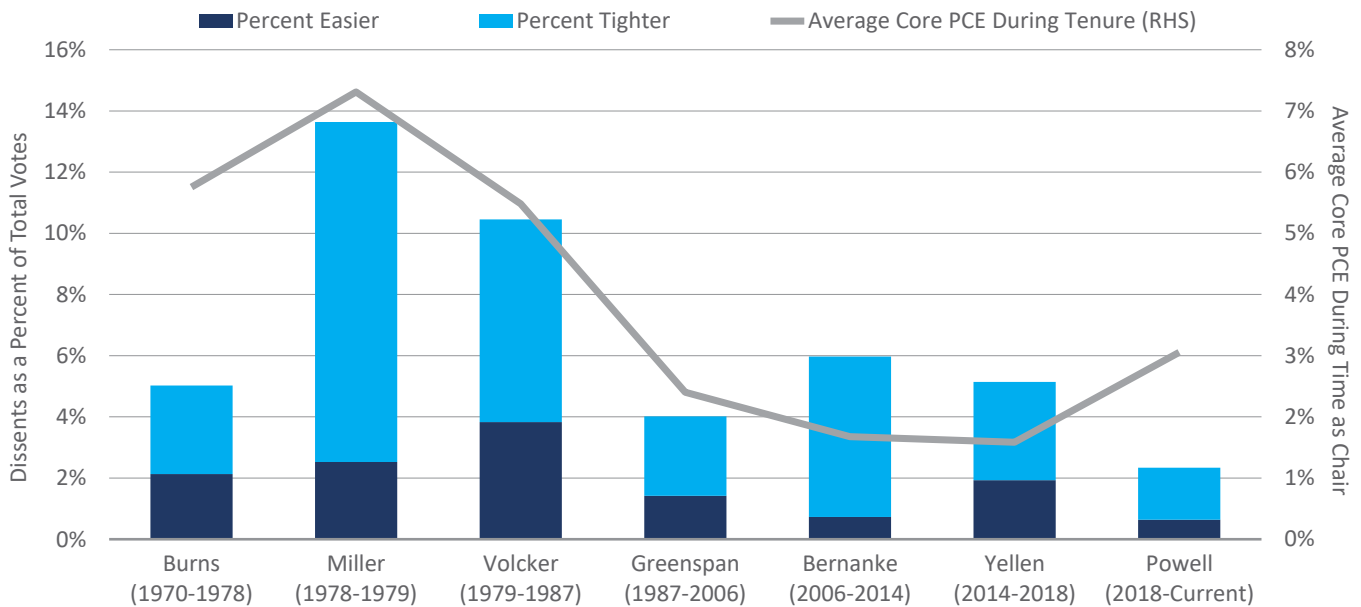
remain historically tight, with IG and HY spreads ending the quarter at 1.22% and 3.79%, respectively.

Rising interest rates continued to negatively impact agency mortgage backed securities (MBS) as prepayment assumptions extended. Agency MBS underperformed the Bloomberg U.S. Aggregate Index during the month and lagged the

index by roughly 40 basis points year-to-date. Despite the average 30-year fixed rate mortgage reaching more than 7% in August, national home price appreciation remains resilient, as measured by the S&P/Case-Shiller 20-city Home Price Index. Data released in August pointed towards a 0.9% increase month-over-month.

DISSENTING VOTES AT THE FED SKEW TOWARDS TIGHTER POLICY

Dissenting Fed Votes as a Percentage of Total Votes by Type



Data source: St. Louis Federal Reserve; Data as of July 2023.

Real Assets

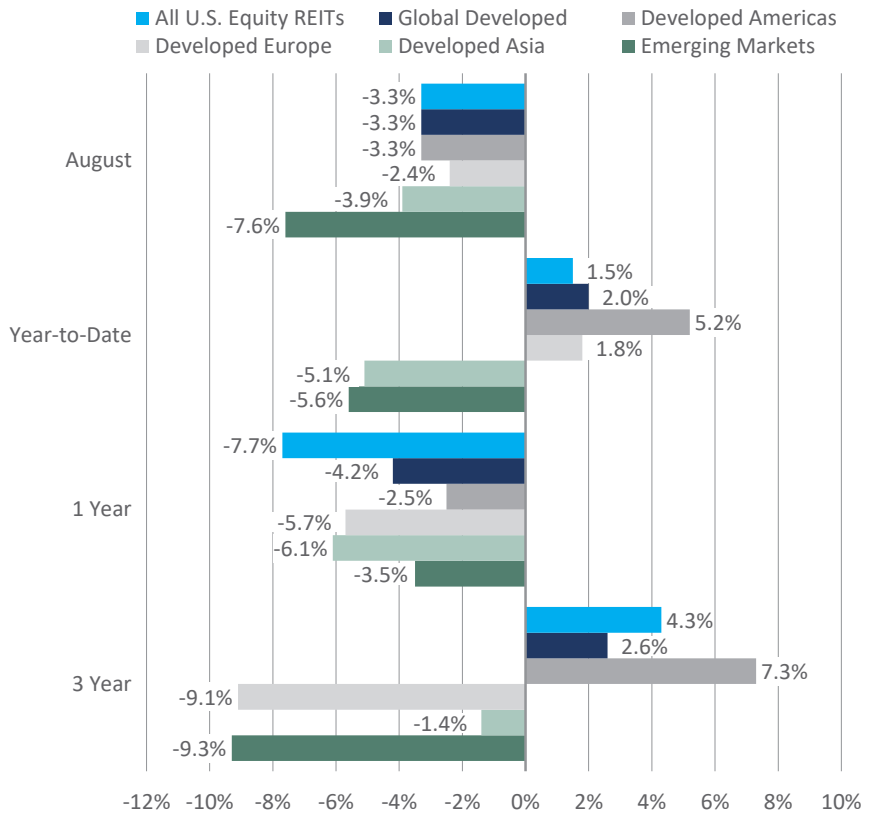
Real Estate

Global real estate investment trust (REIT) indices declined modestly in August amid a sell-off across risk assets. Emerging market REIT indices underperformed their global counterparts, weighed down by China's real estate troubles. Country Garden, one of China's largest private real estate developers, missed inter-est payments on two bonds in early August. The event raised significant concerns from investors, who fear a potential collapse of the major developer could reverberate through China's property market, leading to a substantial decline of confidence in the sector.

All U.S. REIT property sectors were flat to negative in August. The industrial property sector remained healthy amid continued strong demand, but rent growth has decelerated, according to Green Street. Data center vacancy rates remained low, and industry fundamentals strong, with the potential for AI to drive a significant growth cycle in the data center sector.

GLOBAL REITs LAG IN AUGUST

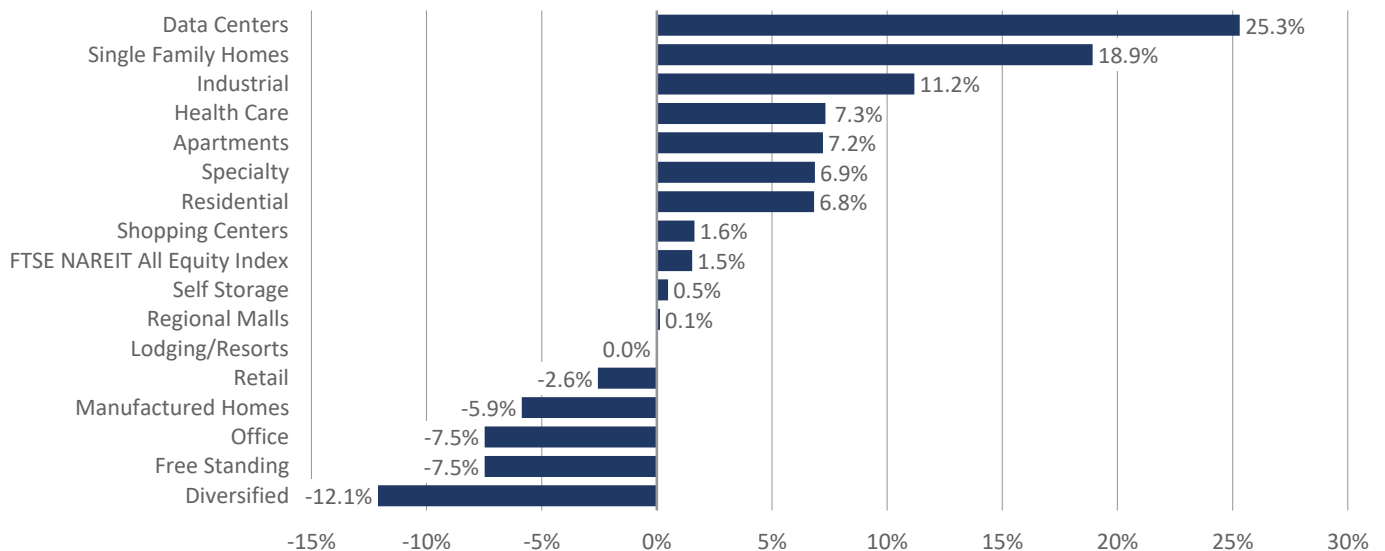
U.S. REIT Trailing Performance by Geography



Data source: FactSet

DATA CENTERS BENEFITTING FROM AI HYPE

U.S. REIT Trailing Performance by Property Type, Year-to-Date



Data source: FactSet

Natural Resources

Oil prices, as measured by West Texas Intermediate (WTI), continued to rally through August, rising for the third consecutive month. OPEC+ production cuts continue to put upward pressure on oil prices, with Saudi Arabia and Russia extending their cuts through the end of 2023.

Industrial metals lagged within commodities as slowing global economic growth continued to depress demand. Within the industrial metals group, nickel remained most pressured due to the growing supply from Indonesia, the world's largest nickel supplier. Year-to-date, nickel prices are down more than 30% as measured by the Bloomberg Nickel Subindex.

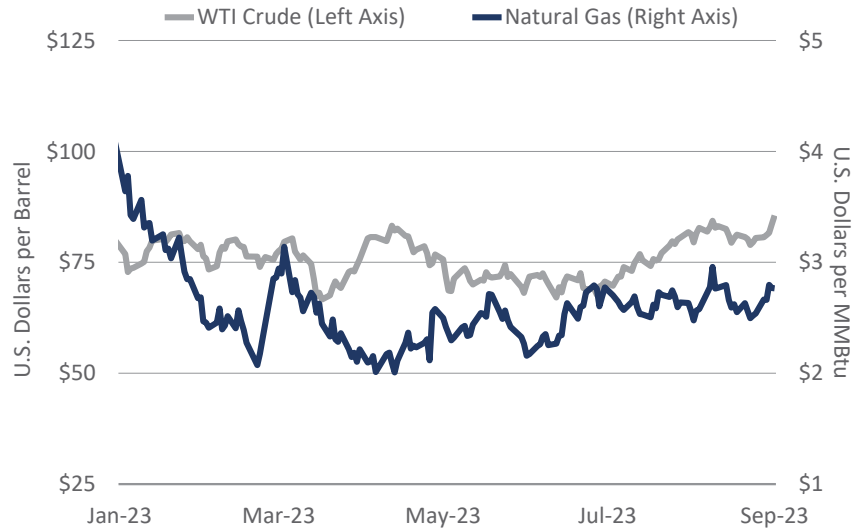
Infrastructure

All global infrastructure indices underperformed in August, with the exclusion of midstream energy. The midstream sector has leveraged its strengthened balance sheets to pursue acquisitions, leading to a trend of consolidation as companies look to enhance their asset base. Additionally, utilities, which comprise a large portion of the listed infrastructure universe, significantly underperformed the broader market year-to-date—primarily due to higher interest rates—which resulted in their dividend yields becoming less attractive.

Midstream energy infrastructure posted a slight gain of 0.7% during August, benefiting from its attractive yield profile and strength in the broader energy sector.

OIL PRICE RALLY CONTINUES THROUGH AUGUST

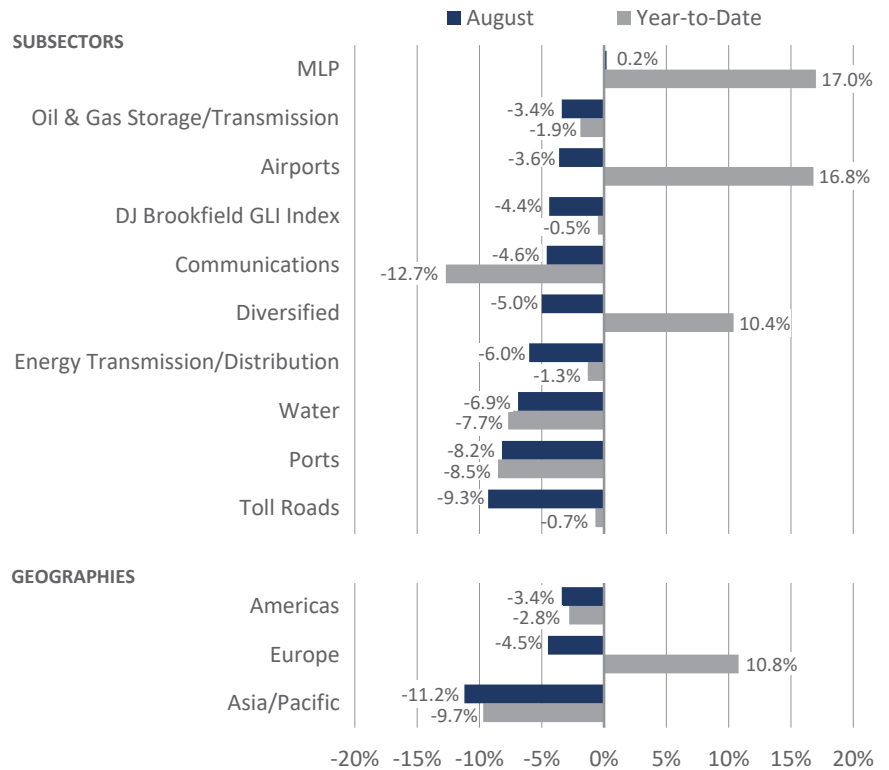
Price of West Texas Intermediate (WTI) Crude and U.S. Natural Gas



Data source: FactSet

MIDSTREAM INFRASTRUCTURE OUTPERFORMS YEAR-TO-DATE

Listed Infrastructure Trailing Returns



Data source: FactSet

Diversifying Strategies

Hedge fund returns were slightly negative in August, with the HFRI Fund Weighted Composite Index declining 0.5%. The HFRI Equity-Hedge Index was the weakest performer, falling over 1%, but year-to-date performance remained strong. The HFRI Event-Driven Index and HFRI Relative Value Index returns were positive for the month, rising 0.4% and 0.3%, respectively.

Hedged equity performance was weak as most S&P 500 sectors were negative on the month. Hedged

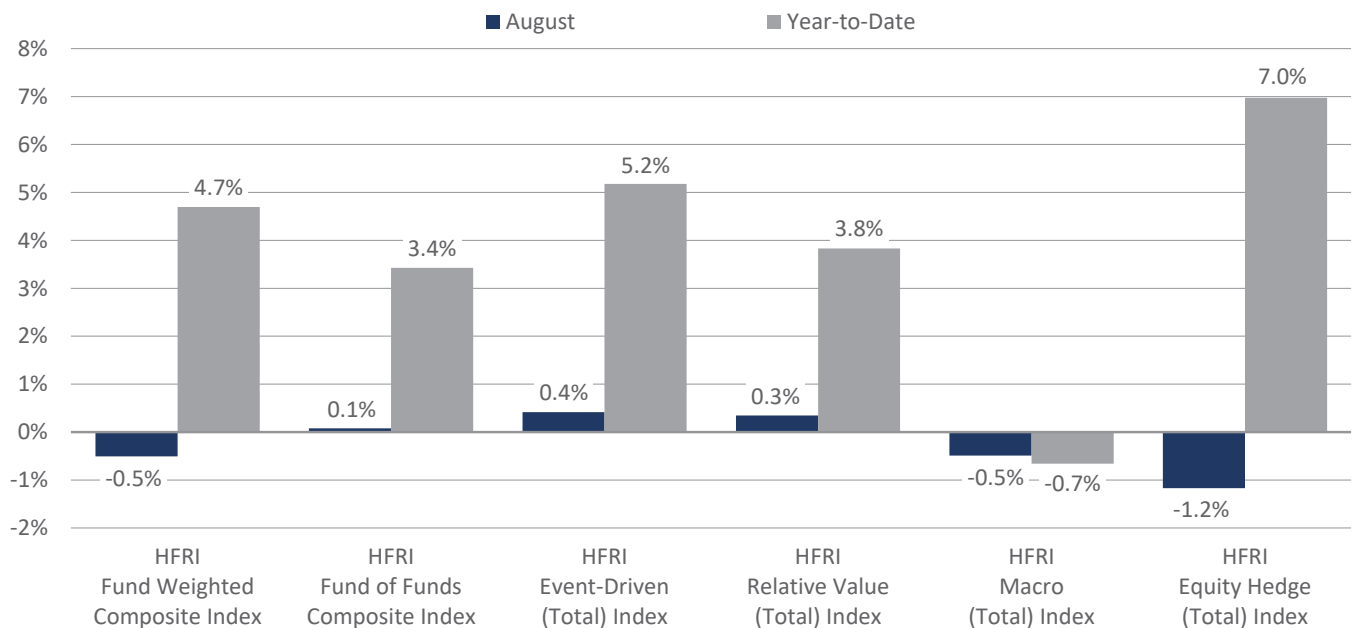
equity funds experienced a prolonged whipsaw over the summer as funds added to their long books in June and July to cover short positions. Hedge fund gross leverage has been relatively high over the past year, and funds began to slowly de-gross, reducing overall positions while still adding back to short books.

Macro funds struggled despite crude oil prices rising and net buying of energy stocks. Further interest rate hikes and persistent inflation amid a period of low volatility relative to

previous market conditions have created a challenging environment for both discretionary and systematic managers. Trend followers have increased exposure to momentum and value over growth while decreasing equity long/short allocations.

HEDGE FUNDS WEAK IN AUGUST

HFRI Indices Performance



Data source: HedgeFund Research

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All data is as of July 31, 2023 unless otherwise noted.

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