

PERSPECTIVES THAT DRIVE ENTERPRISE SUCCESS

MAY 2024 Capital Markets Update

Market commentary

U.S. ECONOMICS

- The revised Q1 GDP report indicated that the U.S. economy grew at a slower pace than previously estimated, now 1.3% annualized vs. 1.6% prior. Investors welcomed the news as a sign that the interest rate hikes enacted by the Fed are now cooling the economy. The adjustment was mostly driven by a -0.5% downward revision to consumer spending to 2.0% annualized.
- The ISM Manufacturing Index fell to 48.7, down from 49.2, indicating that manufacturing activity is contracting. The lower-than-expected manufacturing data was countered by a surprise print from the ISM Services Index, which rose 4.4 points to 53.8. Of note, both indexes reported improvements in their employment sub-indexes.
- Nonfarm payrolls increased 272,000, beating expectations of 190,000. This data surprise further supported the belief that the labor market remains strong. Gains were most pronounced in healthcare and government. Though job additions were strong, the unemployment rate ticked higher to 4.0%, the highest reading since January 2022.

U.S. EQUITIES

- U.S. equities recovered April losses and reached new all-time highs by mid-month. The S&P 500 gained +5.0%, driven in part by a strong earnings season that propelled the Magnificent Seven higher particularly NVIDIA and Microsoft, which posted surprise earnings beats well above estimates.
- Mega-cap companies are still driving earnings and the stock market, but performance in May was broadly positive as 327 constituents gained an average of 6.7% (FactSet). Year to date, the Magnificent Seven have accounted for 56% of the S&P 500 return (11.3%) even though this includes poor performance from Tesla (-28.3%) and Apple (-0.1%).

U.S. FIXED INCOME

- Uncertainty surrounding potential rate cuts in 2024 has strongly influenced the yield curve. In April, investors began to speculate about an additional rate hike leading up to the May 1st FOMC meeting, though at that meeting the Fed made it clear that a rate hike was unlikely. Now, given the most recent data, investors are again pricing in two rate cuts by year end and attention is focused on the upcoming June 11th 12th FOMC meeting.
- Yields fell across the curve as hopes for 2024 rate cuts were reignited. The 2-year fell -15 bps while the 10-year Treasury yield fell -18 bps. The 10-year minus 2-year Treasury yield curve inversion now sits at -38 bps and has been inverted since July 2022.
- Falling yields contributed to positive performance across all broad fixed income indexes. The Bloomberg U.S. Aggregate Index delivered +1.7% and the top performing index was the Bloomberg US Treasury Long Index, which returned +2.9%.

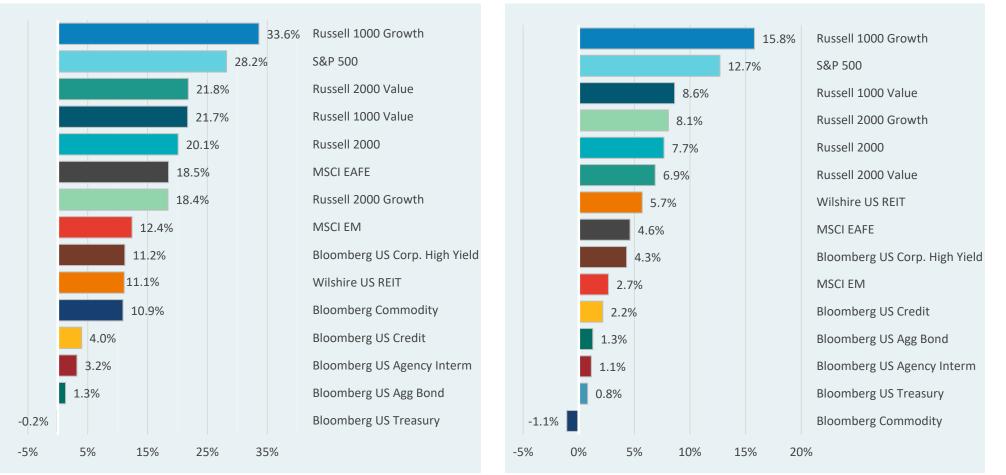
INTERNATIONAL MARKETS

- Easing inflation and the prospect of rate cuts in the Eurozone, as well as the U.S., continue to positively influence international markets. Though international equities still lagged domestic, performance was widely positive, with the MSCI UK (+3.6%) and MSCI Euro (+3.9%) among the best performers.
- The Japanese yen continued to struggle during the month, though the currency showed little change (+0.1%) given that Japanese authorities intervened in late April and again in early May to prop up the currency. In total, 9.8 trillion yen \$62.2 billion USD was spent on intervention. The Japanese government is expected to further intervene, especially as the effects of prior intervention have not held.



Major asset class returns

ONE YEAR ENDING MAY



*Only publicly traded asset performance is shown here. Performance of private assets is typically released with a 3- to 6-month delay.

Source: Morningstar, as of 5/31/24

Source: Morningstar, as of 5/31/24

TEN YEARS ENDING MAY



Capital Markets Update May 2024

U.S. large cap equities

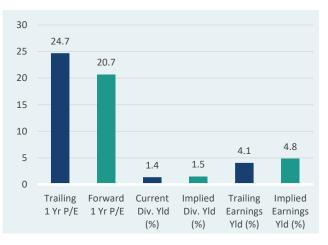
- The S&P 500 Index (+5.0%) more than recovered April's losses, extending its 2024 gains to +11.3%. Easing inflation, as well as other data prints that have suggested some economic cooling, bolstered investors' hopes for multiple interest rate cuts in 2024.
- 10 out of 11 sectors advanced in April, with Information Technology (+10.1%), Utilities (+9.0%) and Communication Services (+6.6%) performing the best. Strong earnings from technology companies, as well as the prospects of more rate cuts sooner than previously expected, fueled tech outperformance in May.
- The Magnificent Seven bounced back strongly, as NVIDIA stock increased +26.9% following a blowout earnings report. NVIDIA reported earnings growth of +630% year-over-year, giving guidance for more modest growth, and announcing a 10-to-1 stock split. This extended NVIDIA's gains to +152%, year-to-date.
- As Q1 earnings season ends (99% reported), the S&P 500 reported its highest earnings growth since Q1 2022, reporting growth of +5.9% year-over-year. Looking forward to Q2 2024, 60% of companies have given negative guidance, in line with the historical average.

5400 5000 4600 4200 4200 3800 3400 May-22 Nov-22 May-23 Nov-23 May-24

IMPLIED VOLATILITY (VIX INDEX)



S&P 500 VALUATION SNAPSHOT



Source: Bloomberg, as of 5/31/24

Source: Bloomberg, as of 5/31/24

S&P 500 PRICE INDEX

Source: Cboe, as of 5/31/24

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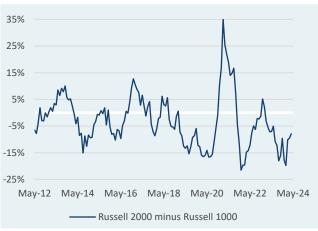
Domestic equity size and style

- While all equity indexes were positive in May, large cap growth was the best performer (Russell 1000 Growth +6.0%). Positive sentiment surrounding rate cuts and strong NVIDIA earnings provided a hefty tailwind.
- Despite strong performance from large cap growth, small cap (Russell 2000 +5.0%) outperformed large cap (Russell 1000 +4.7%). Investors' hope for two interest rate cuts in 2024 likely helped to lift small cap companies that are more sensitive to interest rate movements.
- Relative valuations continued to climb for large-cap growth. The Russell 1000 Growth Index is trading at 27x forward earnings, a 20% premium to the 10-year average. Meanwhile, large-cap value is trading at a slight premium (3.3%) over the historical average. Small caps (Russell 2000) are trading at 22.3x forward earnings, or a -5.9% discount to the 10-year average.
- Following risk-on movements in equities, large-cap value was the worst performer of the major U.S. equity indices (Russell 1000 Value +3.2%).

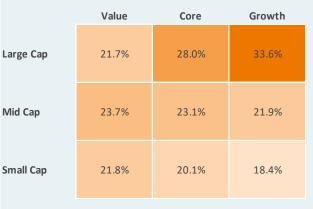
VALUE VS. GROWTH 1-YR ROLLING RELATIVE PERFORMANCE



SMALL VS. LARGE 1-YR ROLLING RELATIVE PERFORMANCE



1-YEAR SIZE & STYLE PERFORMANCE



Source: FTSE, Bloomberg, as of 5/31/24

Source: FTSE, Bloomberg, as of 5/31/24

Source: FTSE, Bloomberg, as of 5/31/24

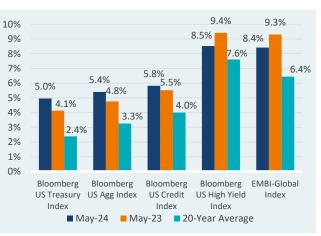
Fixed income

- U.S. bonds recovered some of their April losses, gaining in May (Bloomberg U.S. Aggregate Index +1.7%). Both short- and long-dated treasury yields declined following reignited expectations for Federal Reserve rate cuts in 2024. This brought year-to-date returns to -1.6% for U.S. bonds.
- With the -18 bps decrease in 10-year yields, long treasuries (Bloomberg US Treasury Long +2.9%) were the top performing fixed income index in May. Along with yield curve changes being more pronounced on the long end of the curve, higher duration bonds are the most sensitive to changes in yield.
- Emerging market bonds as measured by the JPM EMBI Global Diversified (+1.8%), slightly outperformed U.S. fixed income (Bloomberg U.S. Agg +1.7%). Investment grade bonds (+2.1%) helped the index outperform.
- Spreads were mixed in May but remained historically tight. High yield spreads increased +2 bps to 3.20%, while bank loan spreads decreased -14 bps to 4.51%. Default rates dropped considerably, with high yield corporate annual defaults decreasing from 1.55% to 1.25%, and bank loan defaults fell from 1.31% to 1.08%. Bank loans remain the top performing index, on a year-to-date basis (Credit Suisse Leveraged Loan +4.2%).

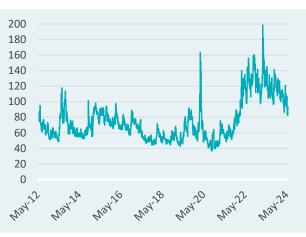
U.S. TREASURY YIELD CURVE



NOMINAL YIELDS



U.S. TREASURY IMPLIED VOL ("MOVE" INDEX)



Source: Bloomberg, as of 5/31/24

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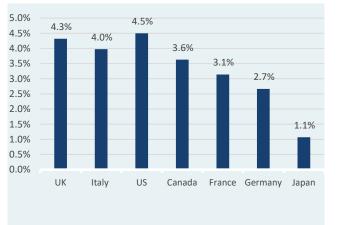
Source: Morningstar, as of 5/31/24

Source: Bloomberg, as of 5/31/24

Global markets

- In a reversal from last month, international equities underperformed U.S. equities by -2.1% (MSCI ACWI ex US +2.9%). ACWI ex U.S. constituents posted mixed results but were generally positive. Latin American equities stood out as a poor performer, declining -3.1%.
- Latin American equities struggled as Brazil (-5.0%) and Mexico (-2.5%) posted poor performance. Combined, these countries make up nearly 90% of the MSCI EM Latin American index. Brazilian equities face a difficult backdrop as government spending and potential intervention have made investors question continued stability for the country.
- European equities were among the top performers with the MSCI Euro Index gaining +3.9%. Anticipation of the first Eurozone rate cut contributed to market gains. The economic backdrop in the Eurozone has appeared bleak compared to the strength of the U.S. economy, though some believe rate cuts could stimulate the broader European economy.
- Chinese equities were maintained momentum and finished the month +2.4%. Chinese officials announced intervention measures to stimulate the economy, including relief forthe struggling property sector which accounts for roughly 25%-30% of GDP growth.

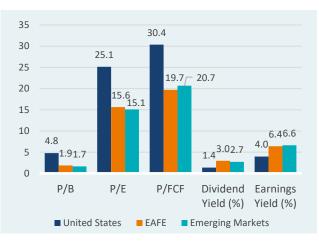
GLOBAL SOVEREIGN 10-YEAR YIELDS



U.S. DOLLAR MAJOR CURRENCY INDEX



MSCI VALUATION METRICS (3-MONTH AVG)



Source: Federal Reserve, as of 5/31/24

Source: Bloomberg, as of 5/31/24

Source: Bloomberg, as of 5/31/24

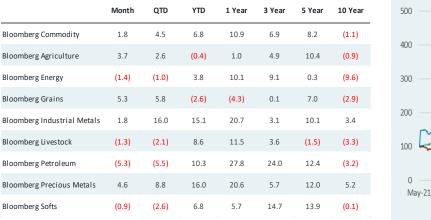
Commodities

- Commodities posted mixed performance, but the broad Bloomberg Commodity Index finished the month +1.8%. Energy (-1.4%) and petroleum (-5.3%) lagged other segments but a spike in natural gas along with positive performance from grains, precious metals and industrial metals helped buoy the broader index.
- Energy commodities w segment, except for na expected demand and production weighed o its worst month since month -6.0% leading u

INDEX AND SECTOR PERF

	0446		///				
		dly ne	0				India imported more sil
atur	al gas	s (+29.	9%). L	.ower	than	_	 The Bloomberg Grains s
an	antic	ipated	incre	ase in			sector performance. Th
Nov	embe	er 202	3 and	endeo	le post d the n June		stocks and sudden free: and Ukraine. This disrug grains, particularly whe
ORN	ИАНС	Έ				сом	MODITY PERFORMANCE
D	YTD	1 Year	3 Year	5 Year	10 Year	500	
4.5	6.8	10.9	6.9	8.2	(1.1)	400	

- The Bloomberg Precious Metals Index posted a +4.6% gain on the month - largely led by a rally in silver prices which rose +14.2% and are now up 26.4% year to date. Regular and industrial demand for silver from China and India, among others have driven prices higher. Premiums in China are now 15% higher than global spot prices and ilver in O1 than in all of 2023.
- sub-index (+5.3%) posted the best here were historically low wheat ezes across northern Europe, Russia, pted expected outlook and drove eat (+12.5%), higher.





Source: Morningstar, as of 5/31/24

Source: Bloomberg, as of 5/31/24







Periodic table of returns

BEST		2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD	5-Yea	r 10-Year
↑	Large Cap Growth	26.0	34.5	32.6	39.8	5.2	79.0	29.1	14.3	18.6	43.3	13.5	13.3	31.7	37.3	6.7	36.4	38.5	28.3	16.1	42.7	13.1	19.4	15.8
	Large Cap Equity	22.2	21.4	26.9	16.2	1.4	37.2	26.9	7.8	18.1	38.8	13.2	5.7	21.3	30.2	1.9	31.4	34.6	27.6	9.4	26.5	10.6	15.4	12.4
	Commodities	20.7	20.1	23.5	15.8	-6.5	34.5	24.5	2.6	17.9	34.5	13.0	0.9	17.3	25.0	0.0	28.5	21.0	27.1	1.5	18.7	6.8	10.7	8.6
	Large Cap Value	18.3	14.0	22.2	11.8	-21.4	32.5	19.2	1.5	17.5	33.5	11.8	0.6	12.1	22.2	-1.5	26.5	20.0	26.5	-4.7	18.2	7.6	8.8	8.1
	International Equity	16.5	7.5	18.4	11.6	-25.9	28.4	16.8	0.4	16.4	33.1	6.0	0.0	11.8	21.7	-3.5	25.5	18.3	25.2	-7.5	16.9	7.1	8.6	7.7
	Small Cap Growth	14.5	7.1	16.6	10.9	-28.9	27.2	16.7	0.1	16.3	32.5	5.6	-0.4	11.3	17.1	-4.8	22.4	14.0	17.7	-13.0	15.4	4.6	8.2	6.9
	Hedge Funds of Funds	14.3	6.3	15.5	10.3	-33.8	23.3	16.1	-2.1	15.3	23.3	4.9	-0.8	11.2	14.6	-6.0	22.0	10.3	14.8	-14.5	14.6	4.5	8.0	6.4
	60/40 Global Portfolio	12.9	5.3	15.1	7.0	-35.6	20.6	15.5	-2.9	14.6	12.1	4.2	-1.4	8.0	13.7	-8.3	18.6	7.8	11.3	-14.5	11.5	3.9	7.8	5.0
	Emerging Markets Equity	11.4	4.7	13.3	7.0	-36.8	19.7	13.1	-4.2	11.5	11.0	3.4	-2.5	7.1	7.8	-9.3	18.4	7.5	8.9	-17.3	9.8	3.4	6.4	4.6
	Small Cap Equity	9.1	4.6	10.4	5.8	-37.6	18.9	10.2	-5.5	10.5	9.0	2.8	-3.8	5.7	7.7	-11.0	8.7	4.6	6.5	-19.1	6.3	2.7	5.1	3.6
	Cash	6.9	4.6	9.1	4.4	-38.4	11.5	8.2	-5.7	4.8	0.1	0.0	-4.4	2.6	7.0	-11.2	7.8	2.8	2.8	-20.1	5.5	2.2	3.8	2.7
	Small Cap Value	6.3	4.2	4.8	-0.2	-38.5	5.9	6.5	-11.7	4.2	-2.0	-1.8	-7.5	1.0	3.5	-12.9	7.7	0.5	0.0	-20.4	5.0	0.8	3.5	1.4
	Real Estate	4.3	3.2	4.3	-1.6	-43.1	0.2	5.7	-13.3	0.1	-2.3	-4.5	-14.9	0.5	1.7	-13.8	6.4	0.5	-1.5	-26.4	-7.9	-1.0	2.0	1.3
¥ ⊢	US Bonds	1.4	2.4	2.1	-9.8	-53.2	-16.9	0.1	-18.2	-1.1	-9.5	-17.0	-24.7	0.3	0.9	-14.6	2.1	-3.1	-2.5	-29.1	-7.9	-1.6	-0.2	-1.1
WORST		Large Cap Equity				Sma	Small Cap Growth				Commodities													
		Large Cap Value				Inter	rnation	al Equi	ty			Real Estate												
		Large Cap Growth				Eme	Emerging Markets Equity				Hedge Funds of Funds													
		Small Cap Equity				US Bonds 60% MSCI ACWI/40% Bloomberg Global Bond																		
		Small Cap Value					Cash																	

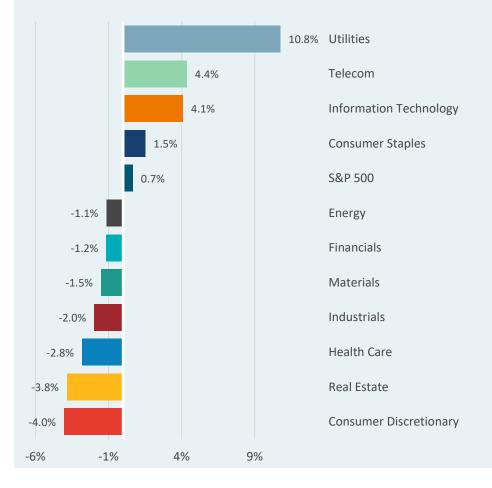
Source Data: Morningstar, Inc., Hedge Fund Research, Inc. (HFR), National Council of Real Estate Investment Fiduciaries (NCREIF). Indices used: Russell 1000, Russell 1000 Value, Russell 1000 Growth, Russell 2000, Russell 2000 Value, Russell 2000 Growth, MSCI EAFE, MSCI EM, Bloomberg US Aggregate, T-Bill 90 Day, Bloomberg Commodity, NCREIF Property, HFRI FOF, MSCI ACWI, Bloomberg Global Bond. NCREIF Property Index performance data as of 3/31/24.



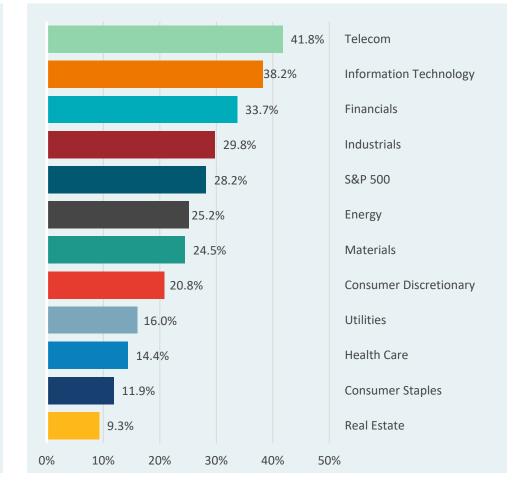
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S&P 500 sector returns

QTD



ONE YEAR ENDING MAY



Source: Morningstar, as of 5/31/24

Source: Morningstar, as of 5/31/24



Detailed index returns

DOMESTIC FOULTY							
DOMESTIC EQUITY							
	Month	QTD	YTD	1 Year	3 Year	5 Year	10 Year
Core Index							
S&P 500	5.0	0.7	11.3	28.2	9.6	15.8	12.7
S&P 500 Equal Weighted	2.8	(2.2)	5.6	21.0	5.1	12.7	10.4
DJ Industrial Average	2.6	(2.5)	3.5	20.0	6.0	11.6	11.3
Russell Top 200	5.3	1.2	12.1	29.6	10.3	17.0	13.5
Russell 1000	4.7	0.3	10.6	28.0	8.5	15.4	12.4
Russell 2000	5.0	(2.4)	2.7	20.1	(1.7)	8.6	7.7
Russell 3000	4.7	0.1	10.1	27.6	7.8	15.0	12.1
Russell Mid Cap	2.9	(2.7)	5.7	23.1	3.1	11.1	9.5
Style Index							
Russell 1000 Growth	6.0	1.5	13.1	33.6	11.1	19.4	15.8
Russell 1000 Value	3.2	(1.2)	7.6	21.7	5.5	10.7	8.6
Russell 2000 Growth	5.4	(2.8)	4.6	18.4	(3.3)	7.8	8.1
Russell 2000 Value	4.7	(2.0)	2.3	21.8	(0.2)	8.8	6.9

Broad Index							
MSCI ACWI	4.1	0.6	8.9	23.6	5.1	11.7	8.4
MSCI ACWI ex US	2.9	1.1	5.8	16.7	0.3	6.8	4.0
MSCI EAFE	3.9	1.2	7.1	18.5	3.1	8.0	4.6
MSCI EM	0.6	1.0	3.4	12.4	(6.2)	3.5	2.7
MSCI EAFE Small Cap	4.3	1.2	3.7	14.4	(2.9)	5.7	4.8
Style Index							
MSCI EAFE Growth	3.8	(0.3)	6.7	13.8	0.2	7.9	5.5
MSCI EAFE Value	3.9	2.9	7.5	23.6	5.7	7.8	3.4
Regional Index							
MSCI UK	3.6	5.5	8.8	18.9	6.7	7.1	2.9
MSCI Japan	1.3	(3.6)	7.0	18.6	2.4	7.6	6.2
MSCI Euro	3.9	0.6	9.1	21.2	4.1	9.5	4.5
MSCI EM Asia	1.4	2.4	5.8	12.6	(6.9)	4.8	4.3
MSCI EM Latin American	(3.1)	(6.5)	(10.2)	12.6	4.0	2.6	0.7

FIXED INCOME							
	Month	QTD	YTD	1 Year	3 Year	5 Year	10 Year
Broad Index							
Bloomberg US TIPS	1.7	0.0	(0.1)	1.6	(1.4)	2.1	1.9
Bloomberg US Treasury Bills	0.5	0.9	2.2	5.5	2.9	2.1	1.5
Bloomberg US Agg Bond	1.7	(0.9)	(1.6)	1.3	(3.1)	(0.2)	1.3
Bloomberg US Universal	1.7	(0.7)	(1.2)	2.4	(2.7)	0.2	1.6
Duration							
Bloomberg US Treasury 1-3 Yr	0.7	0.3	0.6	3.4	0.1	1.0	1.1
Bloomberg US Treasury Long	2.9	(3.4)	(6.6)	(7.2)	(9.9)	(4.3)	0.4
Bloomberg US Treasury	1.5	(0.9)	(1.9)	(0.2)	(3.4)	(0.7)	0.8
Issuer							
Bloomberg US MBS	2.0	(1.1)	(2.1)	0.5	(3.3)	(0.8)	0.8
Bloomberg US Corp. High Yield	1.1	0.1	1.6	11.2	1.8	4.2	4.3
Bloomberg US Agency Interm	0.9	0.1	0.3	3.2	(0.8)	0.6	1.1
Bloomberg US Credit	1.8	(0.7)	(1.1)	4.0	(2.7)	0.9	2.2
OTHER Index							
Bloomberg Commodity	1.8	4.5	6.8	10.9	6.9	8.2	(1.1)
Wilshire US REIT	5.1	(3.2)	(3.2)	11.1	0.3	3.7	5.7
CS Leveraged Loans	0.9	1.6	4.2	13.2	6.0	5.4	4.6
S&P Global Infrastructure	6.3	5.8	7.2	13.6	6.0	6.1	5.3
Alerian MLP	0.6	(0.8)	13.9	34.0	25.6	10.7	2.1
Regional Index							
JPM EMBI Global Div	1.8	(0.3)	1.7	11.0	(2.6)	0.5	2.6
JPM GBI-EM Global Div	1.6	(0.6)	(2.7)	5.1	(3.3)	(0.0)	(0.7)
Hedge Funds							
HFRI Composite	1.3	0.6	5.0	12.2	3.1	7.2	4.9
HFRI FOF Composite	0.8	0.3	4.5	9.6	2.2	5.1	3.6
Currency (Spot)							
Euro	1.5	0.5	(1.7)	1.8	(3.9)	(0.5)	(2.3)
Pound Sterling	1.7	0.8	(0.1)	2.7	(3.6)	0.2	(2.7)
Yen	0.1	(3.7)	(10.3)	(11.1)	(11.4)	(7.1)	(4.3)

Source: Morningstar, HFRI, as of 5/31/24



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Detailed private market returns

Comparison to public market index returns

Private Equity Pooled IRRs	1 Year	3 Year	5 Year	10 Year
Global Private Equity FoFs & Secondary Funds	2.6	10.8	15.2	12.6
MSCI World Index (PME)	23.8	7.6	13.2	8.4
Global Private Equity Direct Funds ¹	5.7	10.2	16.2	14.3
MSCI World Index (PME)	23.7	7.6	12.7	8.7
U.S. Private Equity Direct Funds ¹	6.1	12.2	18.0	15.5
Russell 3000 Index (PME)	25.9	8.9	15.1	11.5
Europe Private Equity Direct Funds ¹	8.2	9.8	15.5	12.9
MSCI Europe Index (PME)	19.8	6.3	9.1	4.3
Asia Private Equity Direct Funds ^{1,4}	1.4	2.9	9.5	11.6
MSCI AC Asia Pacific Index (PME)	11.4	(2.9)	5.0	4.2

Private Credit Pooled IRRs	1 Year	3 Year	5 Year	10 Year
U.S. All Private Debt ^{2,4}	7.7	14.2	12.6	11.0
Moringstar LSTA U.S. Leveraged Loan 100 Index (PME)	13.2	5.5	6.0	4.6
Private Real Estate Pooled IRRs	1 Year	3 Year	5 Year	10 Year
U.S. All Private Real Estate	(4.8)	9.6	7.9	10.5
FTSE NAREIT Equity REIT Index (PME)	14.2	8.4	8.3	9.1
Private Real Assets Pooled IRRs	1 Year	3 Year	5 Year	10 Year
Global Nature Resources ^{3,4}	3.0	20.3	6.1	3.4
S&P Global Natural Resources Index (PME)	3.0	13.1	10.8	5.6
Global Infrastructure ⁴	8.5	10.3	10.3	10.2
S&P Global Infrastructure Index (PME)	6.0	5.1	6.2	4.9

Source: Pooled IRRs and Public Market Equivalents (PMEs) are both from Refinitiv C/A, as of December 31st, 2023. All returns in U.S. dollars.

1. Includes Buyout, Growth Equity and Venture Capital.

2. Includes Control-Oriented Distressed, Credit Opportunities, Senior Debt and Subordinated Capital.

3. Includes Private Equity Energy, Timber and Upstream Energy & Royalties.

4. Due to limited history of the PMEs, only the funds with the same vintage years as PMEs are included.

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Notices & disclosures

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