## Morgan Stanley

**INVESTMENT MANAGEMENT** 



June 2024



BONDS 16

EQUITIES 28

ALTERNATIVES 39

TRANSITION **45** 

The **BEAT**, previously known as the Monthly Market Monitor, provides connectivity between changing market events and implications for investor portfolios.

Spanning Bonds, Equities, Alternatives and Transition\*, this monthly review provides timely information across a broad array of markets and investment topics.

Each edition explores investment ideas, identifies areas of focus and provides a comprehensive outlook on asset allocation — all supported by a concise review of economic and asset class data through clear and impactful charts.

We believe The **BEAT** is a critical desk reference that enables more informed discussion and understanding of financial markets.



If you are viewing this book on your computer or tablet, click or tap on the section box to jump to the beginning of each section.

Data provided is for informational use only. See end of report for important additional information.

\*Transition is an asset allocation view, which refers to cash, cash equivalents or liquid short-duration assets, such as short-dated Treasuries, that can be used to "transition" to other asset classes

## Key Themes for June



### **Selling into Strength — Against Consensus**

As equities reach new highs we are selling. In March of 2024 we started to move from OW U.S. towards our current Neutral stance. This occurred in two tranches: the first half at the end of March, the second in mid-May. We recognize this runs counter to consensus upgrades, but our decision is motivated by markets nearing our bull-case scenario of 5350 in the S&P 500, which fully prices a soft landing. We would turn positive again if we saw a sufficient reacceleration in broad cyclical economic growth, but this not our view currently.



### Global Equities — It's All About the Base (Effects)

The rest of the world catching up to U.S. growth. Over the past few months, we have seen a meaningful rebound and outperformance of European and Chinese equities versus the U.S. and Japan. We increased our exposures from UW to Neutral in both markets at the end of 1Q24 and participated in the rallies, but we are holding at Neutral despite many market narratives advocating for OW positioning. The rebound in ex-U.S. and ex-Japan markets is coming from a low multiple base that explains the recent relative outperformance. However, these markets still have relatively more challenging growth fundamentals ahead that make it difficult to sustain this level of performance. Thus, we hold our Neutral exposures.



### Fed Falls Out of Sync with Global Central Banks

ECB and BoC set to cut rates ahead of the Fed. The immediate impact of this can be found in the relative strength of the U.S. dollar (USD), even against Emerging Market (EM) currencies. The irony is that the USD should be under pressure due to excessive fiscal stimulus and the resulting deficit. As we enter 2H24 and move into the post-U.S. presidential election cycle, we believe the USD could come under pressure. EM may benefit most as central banks can more freely cut without risking the adverse effects of currency devaluation and inflation. But stay tuned.



### **All Roads Lead to Inflation**

Inflation is falling but will it become anchored? The market breathed a sigh of relief as inflation data seems on a bumpy path lower. But the key question is whether it can fall towards target and anchor at those levels. This seems to be more likely in Europe than it is in the US. Eurozone headline HICP inflation at 2.6% inspires confidence that ECB policy may make it fall further and become anchored. Confidence is lower in the U.S. that has competing measures of inflation declining but relating different stories, leaving room for uncertainty. If U.S. inflation proves unanchored, the risk is global central banks are less able to cut rates and support domestic economic activity. This will influence asset prices greatly, but it all comes down to inflation.

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## The Capital Markets Group – Our Top 4 Ideas

### **Equities: Selective Cyclical Exposure, with a Quality Core**

Add cyclicality in a measured way. A positive inflection in global manufacturing PMIs and some rebalancing of ex-U.S. growth relative to U.S. growth suggests the potential for a broadening in equities leadership. We see this as an opportunity to add selective cyclical exposure and balance regional exposures, but we would not overextend into higher risk equity segments. We think a barbell of Quality (lower leverage, higher profitability) paired with some cyclical exposure offers the best risk/reward profile. Opportunities in the Banking sector look appealing to us as well.

### **European Banks: Phoenix Rising**

**European banks offer high income and decent value in an expensive world.** European banks valuations do not yet reflect a structurally different operating environment and capital generation potential, especially when compared with the difficult previous decade. The industry offers a sustainable 10%+ shareholder yield (dividends + share buybacks). We see further (long-term) re-rating potential for European banks, which trade at ~8x Price/Equity (P/E) and 0.9x Price/Book (P/B). Higher through-the-cycle European interest rates, slightly higher nominal GDP growth, healthy private sector balance sheets and a soon-to-be-stable regulatory environment should result in higher sustained profits for shareholders.

### **European Equities: Stuck in Neutral**

Better, but not quite there yet. While valuations and positioning have been attractive for some time, European equity performance has only recently started to catch up with peers, aided by a rebound in economic data in the region. Despite the fact these developments are supportive of better return prospects, we don't see a clear path to sustainable outperformance from European equities. EPS growth remains below peers across most sectors and the expected cyclical rebound already looks largely priced into areas that stand to benefit from it.

#### The Real Deal

Higher real rates may present a deal for bond investors. Real rates rose over the past several months as growth and inflation both surprised to the upside. But this move higher in real rates has recently reversed course, as both growth and inflation fundamentals appear to be moderating. We see this as an opportunity to own fixed income assets in order to capture higher real yields, which will likely bring in more buyers of fixed income. This opportunity is particularly pronounced in EM debt where central banks have kept interest rates higher than normal to reduce the risk of local currency devaluations against the USD. Additionally, lower quality credit provides attractive opportunities in this respect given that we expect a soft landing and a lower default outcome.

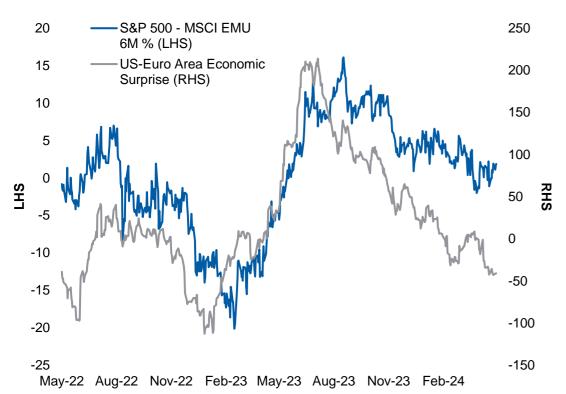
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## It's all About the Base (Effects)

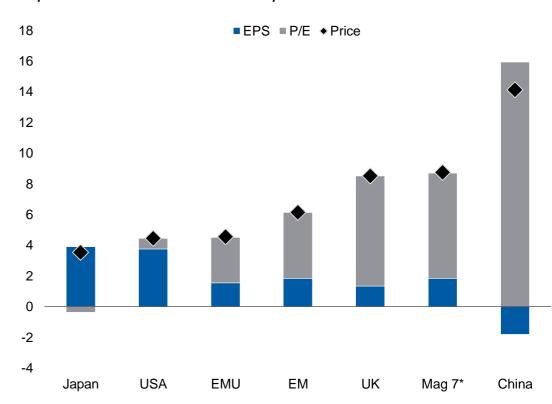
The rebound in ex-U.S. and ex-Japanese markets is coming from a low multiple base. This is what explains the recent relative outperformance. However, these markets still have challenging growth fundamentals ahead that may make it difficult to sustain this level of performance. We remain Neutral Europe and the U.S. vs OW Japanese equities.

### **European Growth Is Rebounding From a Low Base**

U.S. vs. Eurozone equity Performance and economic surprises



# In Most Cases, the Rally Has Been Led by Multiples Equities 3-month return decomposition

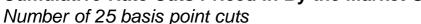


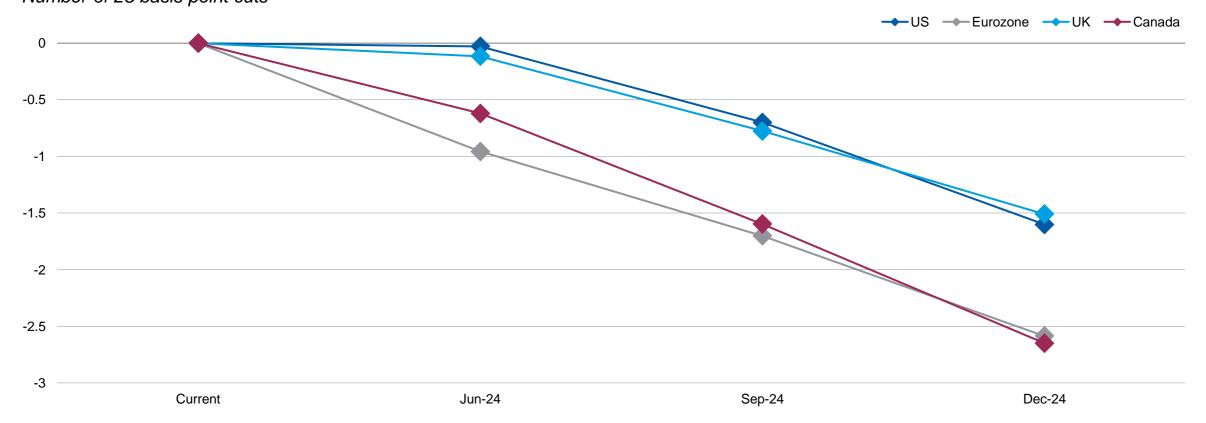
Source: Bloomberg, MSIM. Data as of 23 May 2024. \* Magnificent 7= Nvidia, Alphabet, Amazon, Microsoft, Apple, Meta, Tesla. This information should not be construed as a recommendation to purchase or sell specific securities. The views and opinions expressed are those of the Capital Markets Group at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. The index performance is provided for illustrative purposes only and is not meant to depict the performance of a specific investment. Past performance is no guarantee of future results.

## The Fed Falls Out of Sync with Global Central Banks

Unlike the ECB and BoC, Fed cuts are priced to occur later and in smaller increments. While this dynamic has supported the USD in 1H24, as we enter 2H24 and move into the post-U.S. presidential election cycle, we believe the USD could come under pressure due to excessive fiscal stimulus and the resulting deficit.

### Cumulative Rate Cuts Priced In By the Market Up To Year End



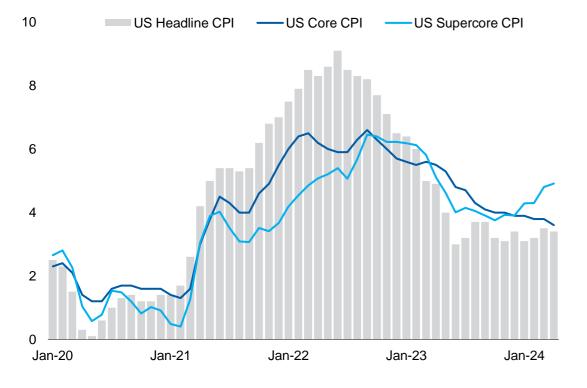


Source: Bloomberg, Macrobond, MSIM. Data as of 24 May 2024. The views and opinions expressed are those of the Capital Markets Group at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass.

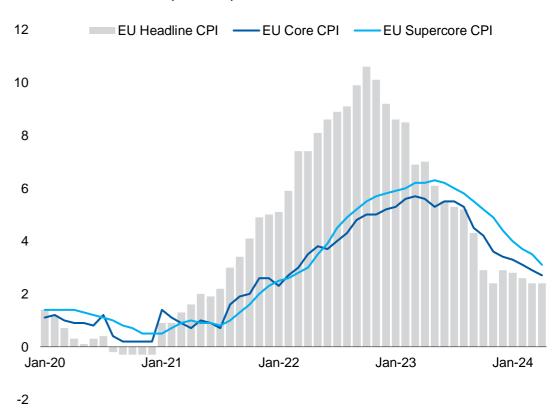
## All Roads Lead to Inflation

The recent reacceleration in U.S. supercore CPI (core CPI ex housing and rent) is a reminder that the risk of inflation becoming unanchored has not been fully eliminated, ending hopes for earlier Fed rate cuts. In contrast, the moderation in Eurozone inflation looks more broad-based, though wage trends remain key to watch for a potential resurgence.

# Visible Divergence between U.S. Core and Supercore Inflation United States inflation (YoY %)



### Decline in Eurozone Inflation Is More Synchronous Eurozone inflation (YoY %)



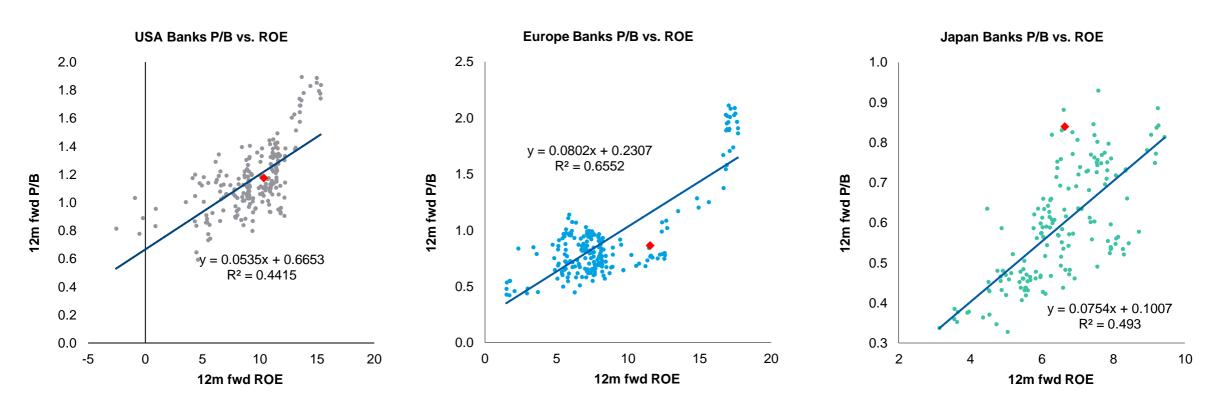
Source: Bloomberg, MSIM. Data as of 24 May 2024. The views and opinions expressed are those of the Capital Markets Group at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass.

## **European Banks Overweight**

Higher through-the-cycle European interest rates, slightly higher nominal GDP growth, healthy private sector balance sheets and a soon-to-be-stable regulatory environment should result in higher sustained profits for shareholders. Higher structural profitability should be rewarded with a higher Price-to-Book (P/B) multiple over time.

### European Banks Appear Somewhat Cheap Given the Level of Returns They Generate

12-month forward P/B vs. 12-month forward ROE



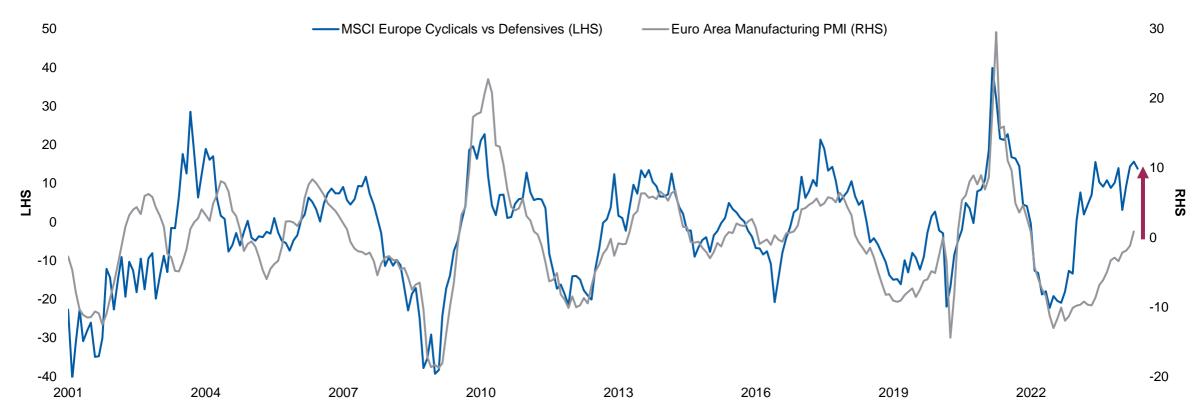
Source: Bloomberg, MSIM PSG. Data for USA since 31/03/2006; Europe 31/03/2006; Japan 31/12/2010. Red marker denotes latest reading. Data as of 23 May 2024. The views and opinions expressed are those of the Capital Markets Group at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass.

## European Equities: Stuck in Neutral

While a bottoming out in macro indicators is supportive of better return prospects, we don't see a clear path to sustainable outperformance from European equities. EPS growth remains below peers across most sectors and the expected cyclical rebound looks largely priced into areas that stand to benefit.

### European Cyclical Stocks Have Already Priced PMIs at Expansionary Levels

Year-on-year change in MSCI Europe Cyclicals/Defensives and Manufacturing PMI

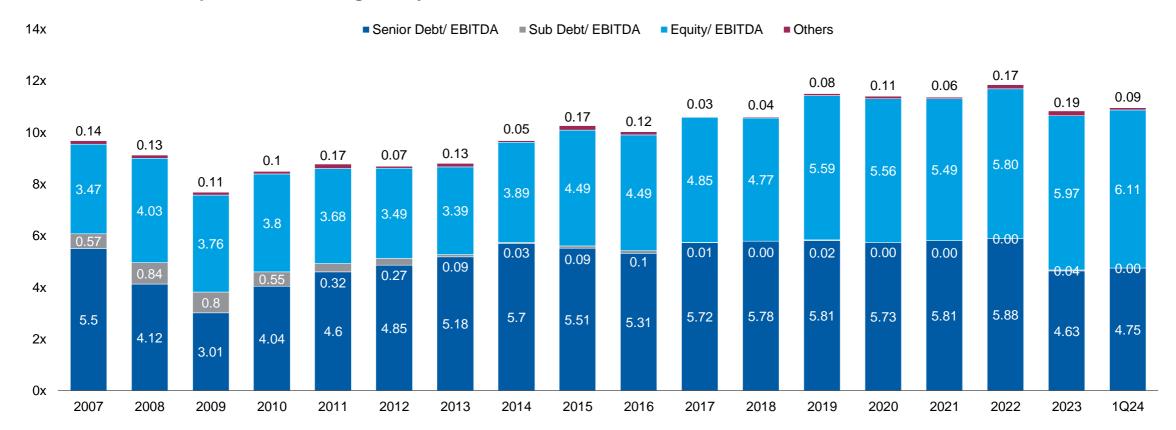


Source: Bloomberg, MSIM. Data as of 23 May 2024. The views and opinions expressed are those of the Capital Markets Group at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. The index performance is provided for illustrative purposes only and is not meant to depict the performance of a specific investment. **Past performance is no guarantee of future results.** 

## Private Equity Shows Signs of Improved Entry Valuations

Private markets transaction activity is thin, but a visible decline in valuations has emerged in response to higher interest rates. When transaction volumes recover more broadly, we expect to see further evidence of a price correction and attractive entry valuations.

### Purchase Price Multiples — All Leveraged Buyouts

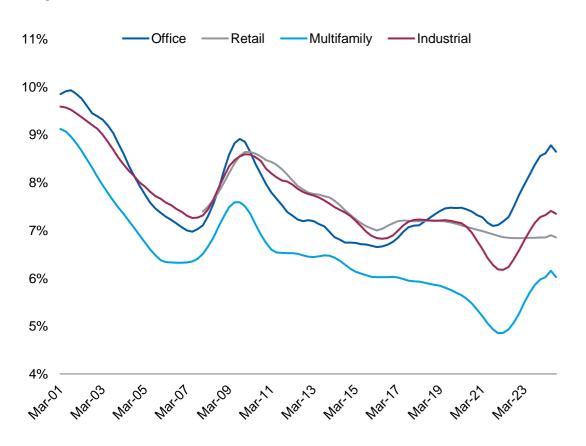


Sources: Pitchbook, Preqin. This information reflects the views of the Capital Markets Group as of the date hereof and not of any future date and are subject to change without notice in response to changing circumstances and market conditions. Senior Debt are loans secured by collateral that must be paid off before other debts when a company goes into default. Subordinated Debt are loans which rank after other debts (e.g. Senior Debt) if a company falls into default, and therefore carries more risk for the lender. EBITDA stands for Earnings Before Interest, Taxes, Depreciation and Amortization, a reflection a firm's short-term operational efficiency. A lower debt/EBITDA ratio generally reflects a healthier company from a financial standpoint, representing a higher level of cash from earnings to cover debt payments, viewed as less risky for an investor.

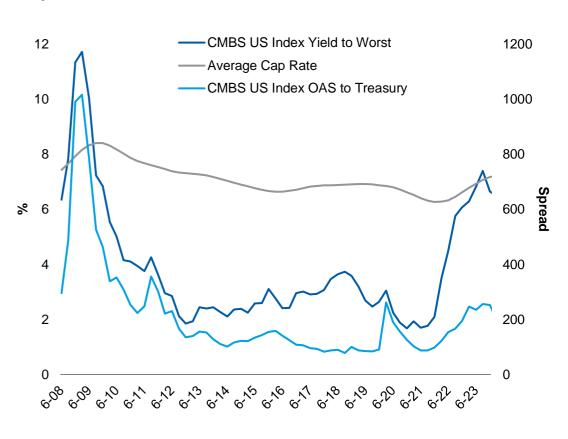
## **Emerging Opportunity Set in Commercial Real Estate Equity**

Commercial real estate valuations have become more attractive in the face of higher interest rates and increasing supply. We expect volumes to pick up this year due to upcoming debt maturities, reinforcing these lower entry points.

### **Cap Rates**



### **Cap Rates vs. Cost of Debt**



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## Capital Markets Investment Framework

Representative Allocations from the Portfolio Solutions Group



- -- High conviction underweight
- Underweight
- = Neutral
- + Overweight
- ++ High conviction overweight



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**Fixed Income** 

#### **TOP IDEAS**

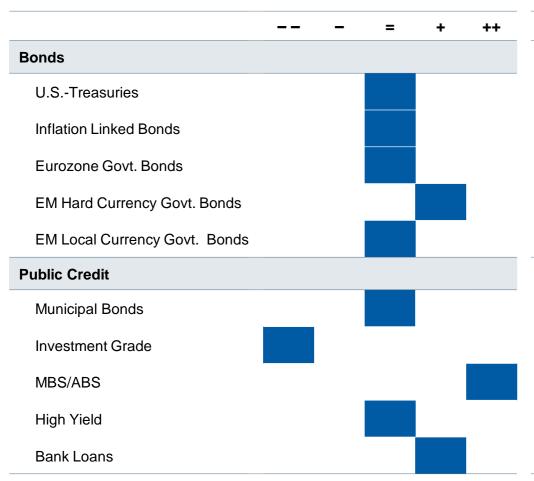
## Global Fixed Income

### Representative Positioning from Portfolio Solutions Group

**Our View** 



- High conviction underweight
- Underweight
- = Neutral
- + Overweight
- ++ High conviction overweight



We remain UW benchmark duration (which we think of as broadly neutral). The excessive 2024 rate cuts have been priced out, which leads to a more balanced outlook for duration.

Real yields have climbed following the March CPI release. With inflation proving stickier than expected, 10-year inflation breakevens are likely to remain above 2.2%.

Commentary

Lingering wage growth makes the risk/reward on Eurozone duration balanced, although on a relative basis we see an increased risk of deeper cuts by the ECB due to a more convincing disinflation trend.

The combination of declining rates volatility and robust EM PMIs should support EMBI spreads. The key risk for the asset class is sticky inflation which could result in a further hawkish repricing in rates.

Depressed EM local yields vs U.S. credit will limit inflows. EM FX has come under pressure amid a hawkish Fed. The key risk for the asset class is of further aggressive Fed surprises.

Current yields for high quality Munis equate to minimal or zero pickup versus U.S. Treasuries on an after-tax basis. On the other hand, there is a bit more value in lower rated parts of the market.

We are UW IG corporate bonds. Spreads are at historical tights. Excess return over USTs should be minimal and IG remains sensitive to left-tail outcomes leading to a highly asymmetrical return profile.

High conviction in asset-backed securities and yield per unit of credit quality remains attractive. Consumer cash flows are strong due to tight labor markets.

High Yield spreads are now very tight, particularly in the BB and B-rated segments of the market, offering less value. All-in yields remain somewhat attractive amid a reasonably strong economic environment.

Yields remain attractive as more rate cuts are priced out of the market, and spreads offer reasonable value, even if they look a bit rich versus history. Default rates should continue to fall.

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## Global Equity

### Representative Positioning from Portfolio Solutions Group



- High conviction underweight
  - Underweight
  - = Neutral
  - + Overweight

++ High conviction overweight



While U.S. growth should remain resilient, we see signs of stabilizing growth outside the U.S. However, with a lot of the recent rally being multiple-led, we view risks as balanced at this juncture.

Commentary

A bottoming out in macro indicators is supportive of better return prospects, yet fundamentals still look weaker than in other equity regions, balancing the outlook for European equities.

Japan's path to sustainable inflation and corporate governance reforms are key pillars for improved profit margins and shareholder returns. Valuations have re-rated but are not stretched, while positioning is not crowded. The absence of meaningful Yen appreciation continues to be supportive.

The absence of a DM hard landing and easing financial conditions are supportive for EM in general. Structural concerns persist for China, but government support is driving a valuation repair phase amid light positioning. Looking ahead, durability of the rally relies on sustainable earnings improvement.

Currently the Growth Index vs Value Index trade is dominated by Big Tech. Upward estimate revisions for Big Tech continue, suggesting this trade remains well supported by fundamentals.

With little excess risk premium in equities and a limit to economic growth acceleration due to inflation risk, we continue to prefer a tilt toward Quality. We balance this with selective cyclical exposure.

The cost of capital remains high, and we see Large Cap stocks as better insulated from leverage-related pressures than more fragile Small Caps.

We see balanced risk for Dividend yield style exposures. Understand that high dividend yield as an independent style factor does not imply Quality, though many dividend focused funds also seek quality factors.

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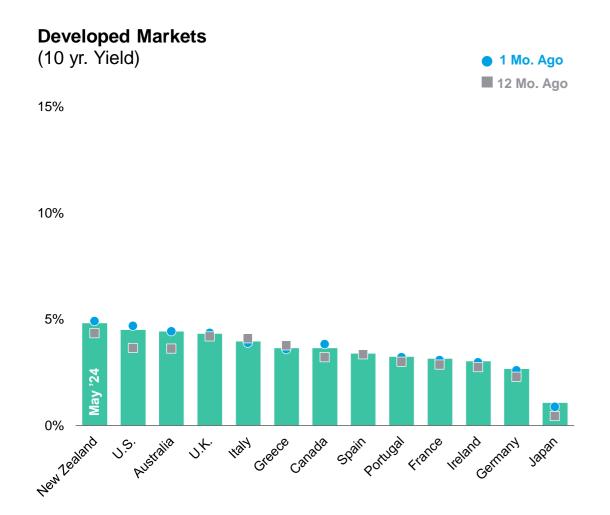
## **Alternatives**

### Representative Positioning from Portfolio Solutions Group

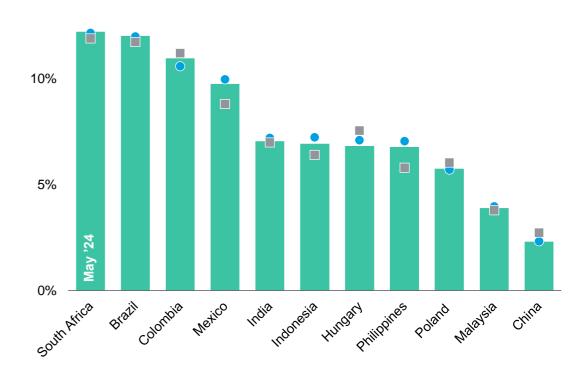
Alternative Assets	Commentary
Private Markets	
Private Equity	The industry level repricing represents a potentially compelling entry point into private equity. However, the operating environment suggests that lower valuations are necessary but not sufficient for attractive forward-looking returns. Private equity sponsors also need a very competitive tool kit to pursue revenue growth initiatives, margin expansion and suitable capital structures, potentially with organic growth playing a larger roll relative to inorganic growth within an environment of higher debt service costs and lower leverage multiples. We believe high quality small and middle market managers with operational expertise will be well-placed to deliver attractive returns under these conditions.
Private Real Assets	Commercial real estate has continued to reprice meaningfully, with the core real estate benchmark experiencing its sixth consecutive negative quarter. This has been driven by higher debt costs and pockets of elevated supply. A significant amount of commercial real estate debt is expected to mature this year, and this is expected to drive higher transaction volumes with attractive entry valuations. Long-term demand tailwinds in key sectors remain in place and are expected to combine with improved pricing to represent a compelling opportunity.
	Private infrastructure is benefiting from the tailwinds of two mega trends; 1) digitization of society and economies and 2) the energy transition. Investment opportunities are expanding and accelerating due to the developments in generative AI as the power market is currently inadequate to satisfy the volume and density requirements of generative AI, but also the low tolerance for intermittency that is increasing as renewables grow as a proportion of the overall power mix.
Private Credit	Private loan pricing, terms and defaults are generally now in line with long-term averages, allowing private credit to contribute to overall portfolio construction with return expectations aligned with historical levels. As corporates continue to adjust to higher interest rate expense, the supply of performing but non-conforming opportunities for special situations lenders is growing and offers attractive pricing.
Liquid Alternatives	
Hedge Funds	Bottom-up fundamental security selection and trend following are both benefiting from higher return dispersion and lower cross correlations in asset performance, as well as benefitting from higher cash returns. Portfolio positioning shows hedge funds have relatively high conviction in the current opportunities for skill-based returns.
Commodities	We are neutral on key commodity markets. While a rebound in manufacturing activity is supportive of commodity demand, high OPEC spare capacity and generally healthy supply from non-OPEC countries should keep oil prices capped for the time being.

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## Sovereign Bond Yields







Past performance is no guarantee of future results.

It is not possible to invest directly in an index. Source: Factset as of 5/31/24. Data provided is for informational use only. See end of report for important additional information.

The **BEAT** | June 2024

15%

## Key Rates (%)

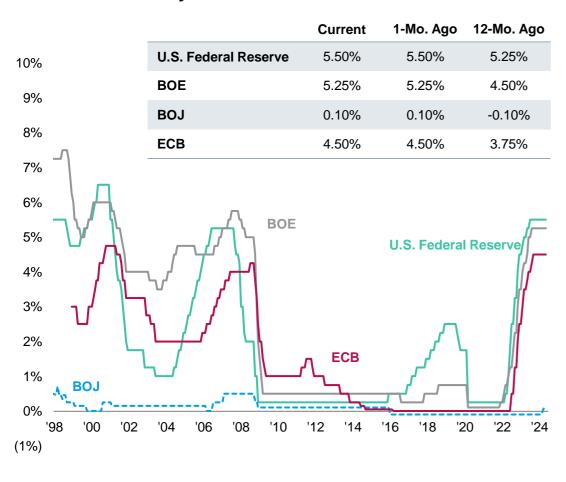
Security	Current	12-Mo. Ago	Average	Minimum	Maximum
1-Week SIFMA	3.36	3.56	3.52	1.90	4.55
Secured Overnight Financing Rate	5.34	5.08	5.28	5.05	5.40
1-Mo LIBOR	5.44	5.19	5.42	5.15	5.48
3-Mo LIBOR	5.60	5.52	5.61	5.50	5.69
2-Yr Treasury	4.87	4.39	4.77	4.17	5.21
5-Yr Treasury	4.49	3.75	4.31	3.79	4.96
10-Yr Treasury	4.49	3.64	4.26	3.68	4.99
30-Yr Treasury	4.63	3.86	4.39	3.81	5.11
2-Yr Japan	0.43	-0.05	0.09	-0.09	0.43
10-Yr Japan	1.07	0.42	0.70	0.36	1.07
2-Yr German Bund	3.09	2.71	2.93	2.38	3.31
10-Yr German Bund	2.65	2.28	2.48	1.91	2.98
2-Yr UK Gilt	4.39	4.31	4.60	3.96	5.52
10-Yr UK Gilt	4.31	4.18	4.22	3.46	4.74
Bloomberg US Agg	5.10	4.59	5.01	4.49	5.74
Bloomberg Global Agg	3.98	3.66	3.91	3.48	4.42
Bloomberg US Corporate	5.52	5.37	5.58	5.02	6.43
Bloomberg US Long Corporate	5.71	5.52	5.71	5.16	6.60
Bloomberg US Municipal	3.93	3.64	3.68	3.21	4.50
Bloomberg US Long Municipal	4.41	4.35	4.39	4.01	5.18
US High Yield	8.04	8.83	8.34	7.62	9.53
US Loans	9.70	10.78	10.19	9.68	10.80

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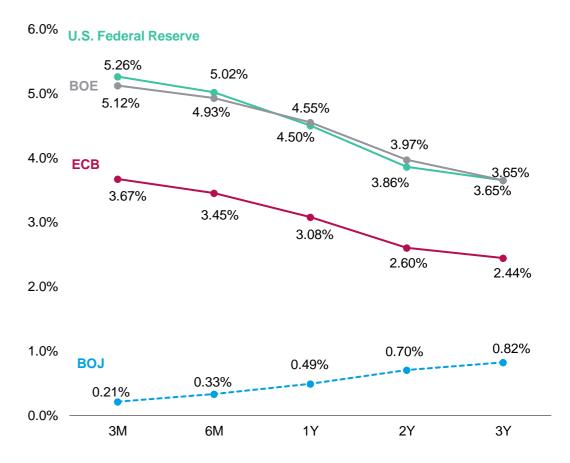
It is not possible to invest directly in an index. Source: Bloomberg, Leveraged Commentary & Data (LCD), and Factset as of 5/31/24. Current represents most recent month. Average, minimum, and maximum measure a 12-month period ending most recent month. Data provided is for informational use only. US High Yield is represented by ICE BofA US High Yield Index. US Loans is represented by Morningstar LSTA U.S. Leveraged Loan Index. Bloomberg indices and ICE BofA US HY index using yield to worst. Morningstar LSTA U.S. Leveraged Loan Index using yield to maturity. See end of report for important additional information.

## Monetary Policy

### **Central Bank Policy Rates**



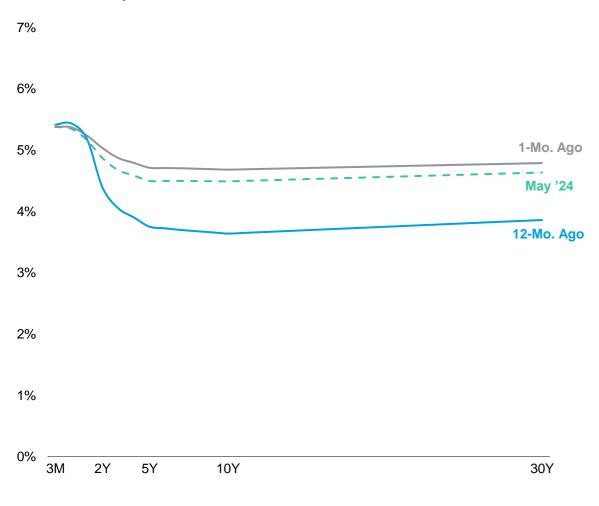
### **Market Expectations for Future Central Bank Rates**



Source: Bloomberg, Factset as of 5/31/24. Data provided is for informational use only. See end of report for important additional information. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass.

## U.S. Treasury Yields

### **U.S. Treasury Yield Curves**



**Yields & Performance** 

Society		Yield (%)		Total R	eturn (%)
Security -	Current	1-Mo. Ago	12-Mo. Ago	1-Mo.	12-Mo.
3-mo. Treasury	5.38	5.38	5.41	0.48	5.45
6-mo. Treasury	5.35	5.37	5.43	0.47	5.52
2-yr. Treasury	4.87	5.03	4.39	0.67	2.82
3-yr. Treasury	4.67	4.87	4.05	0.90	1.96
5-yr. Treasury	4.49	4.71	3.75	1.25	0.34
10-yr. Treasury	4.49	4.68	3.64	1.88	-3.22
30-yr. Treasury	4.63	4.79	3.86	2.83	-9.37

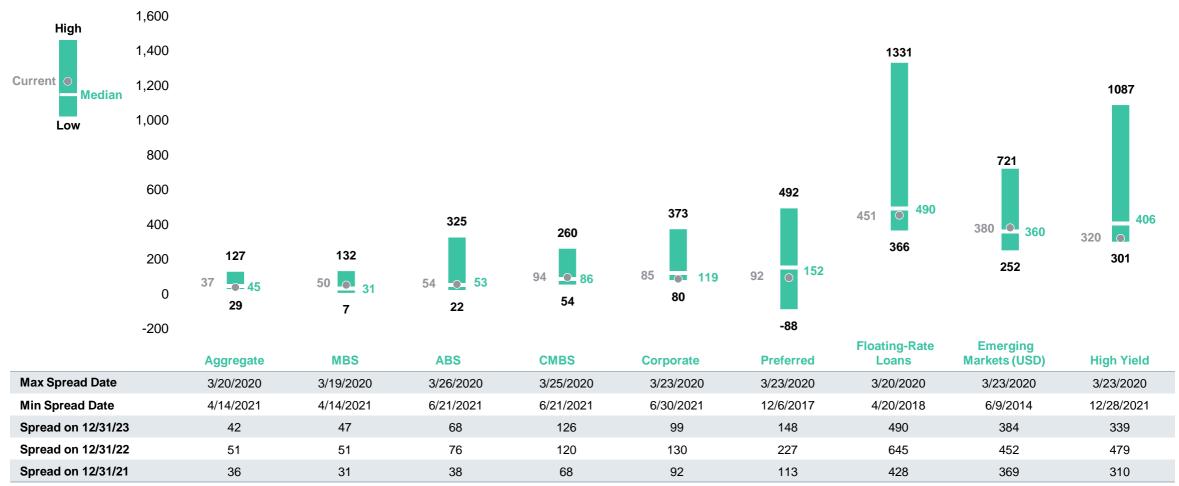
Source: Factset, Morningstar as of 5/31/24. Data provided is for informational use only. Past Performance is not a reliable indicator of future results. See end of report for important additional information.

## Characteristics and Performance Analysis

			Avera	ages					Total	Returns	s (%)		
Index	Coupon (%)	Price (\$)	Yield to Worst (%)	Spread (bps)	Maturity (yrs.)	Duration (yrs.)	1-Mo.	3-Mo.	YTD	1Y	3Y	5Y	10Y
U.S. High Grade													
Bloomberg U.S. Aggregate Index	3.27	89.3	5.10	37	8.4	6.2	1.70	0.04	-1.64	1.31	-3.10	-0.17	1.26
U.S. Treasury	2.77	89.3	4.69	-	7.7	5.9	1.46	-0.27	-1.85	-0.22	-3.38	-0.67	0.79
U.S. Mortgage Backed Securities	3.16	86.7	5.34	50	7.8	6.1	2.00	-0.04	-2.12	0.50	-3.31	-0.85	0.80
U.S. Asset Backed Securities	4.66	98.2	5.41	54	3.6	2.7	0.93	0.80	0.99	4.47	0.48	1.57	1.78
U.S. Commercial Mortgage Backed Securities	3.21	90.6	5.59	94	4.8	4.3	1.54	0.64	0.58	3.89	-2.03	0.70	1.88
U.S. Corp. Investment Grade	4.19	91.1	5.52	85	10.7	6.9	1.87	0.56	-1.12	4.40	-2.71	0.98	2.28
Bloomberg Municipal Bond Index	4.56	100.3	3.93	-	13.3	6.1	-0.29	-1.53	-1.91	2.67	-1.29	0.93	2.25
Bloomberg Taxable Municipal Bond Index	4.31	91.2	5.27	-	14.3	7.8	1.73	0.06	-1.12	2.52	-3.39	0.35	2.81
ICE BofA US Inflation-Linked Treasury Index	0.94	91.3	2.26	-	7.6	5.4	1.73	0.82	0.12	1.41	-1.57	2.01	1.88
ICE BofA Preferred Index (Fixed Rate)	5.26	91.2	6.30	92	-	5.4	1.76	-0.06	3.55	10.19	-0.33	2.58	4.23
U.S. High Yield													
ICE BofA US High Yield Index	6.25	92.5	8.04	320	4.9	3.3	1.13	1.32	1.63	11.17	1.78	4.03	4.20
Morningstar LSTA U.S. Leveraged Loan Index	S+3.61	96.9	9.70	451	4.4	_	0.94	2.41	4.04	13.23	6.15	5.50	4.62
Emerging Markets													
J.P. Morgan EM Bond Index (EMBI) Global Diversified	5.42	83.7	8.42	380	-	6.5	1.80	1.77	1.72	10.98	-2.56	0.52	2.58
J.P. Morgan Corp. EM Bond Index (CEMBI) Broad Diversified	5.02	92.7	6.79	217	-	4.3	1.46	1.57	2.89	9.46	-0.36	2.48	3.50
J.P. Morgan Govt. Bond Index-EM (GBI-EM) Global Diversified	5.44	_	6.61	-	-	5.0	1.61	-0.59	-2.66	5.09	-3.31	0.00	-0.66
Global Developed Markets													
Bloomberg Global Aggregate Ex-U.S. Index	2.23	94.3	3.01	32	8.5	7.0	1.00	-1.37	-4.77	0.10	-7.95	-2.89	-1.69
FTSE World Government Bond Index	2.36	-	3.74	-	-	7.1	1.08	-1.13	-3.93	-0.61	-7.24	-2.75	-1.12
ICE BofA European Union Government Bond Index	2.05	92.0	3.23	44	8.9	7.3	1.39	-0.22	-3.92	3.79	-8.85	-2.65	-1.68
ICE BofA Developed Mkts HY Ex-Sub Fincl Index (USD Hedged)	5.98	92.7	7.73	345	3.7	3.2	1.11	1.35	1.96	11.42	2.08	4.14	4.37
Bloomberg Euro-Aggregate Corporates (EUR)	2.32	93.7	3.92	108	5.1	4.5	0.27	0.63	-0.12	5.28	-2.34	-0.56	1.00
Bloomberg Pan-European High Yield Euro (EUR)	4.53	94.3	6.62	322	3.7	3.1	1.02	1.37	2.50	10.58	1.20	2.83	3.31

Past performance is no guarantee of future results. It is not possible to invest directly in an index. Source: Bloomberg, J.P. Morgan, ICE BofA Data Indices, LLC, Factset, and Leveraged Commentary & Data (LCD), as of 5/31/24. Data provided is for informational use only. See end of report for important additional information. Yield to maturity is shown for the Morningstar LSTA U.S. Leveraged Loan Index and the FTSE World Government Bond Index. S+ refers to SOFR (Secured Overnight Financing Rate) as the base rate. Loan Index spread represents the three-year discounted spread over SOFR. Returns of the ICE BofA Developed Mtks HY Ex-Sub Financial Index are USD Hedged. The averages for the index are unhedged. Returns and averages for the Bloomberg Euro-Agg Corps and Bloomberg Pan-Euro HY indices are in EUR (unhedged).

## Spread Analysis (bps)



Past performance is no guarantee of future results. It is not possible to invest directly in an index. Source: Factset and Leveraged Commentary & Data (LCD) as of 5/31/24. Spread history measures past 10 years. Data provided is for informational use only. See end of report for important additional information. All fixed-income spreads are in basis points and measure option-adjusted yield spread relative to comparable maturity U.S. Treasuries using daily data. Aggregate represented by Bloomberg US Aggregate Index. MBS represented by Bloomberg U.S. Asset Backed Securities (ABS) Index. CMBS represented by Bloomberg U.S. CMBS Investment Grade Index. Corporate represented by Bloomberg U.S. Corporate Investment Grade Index. Preferred represented by ICE BofA Fixed Rate Preferred Securities Index. Floating-Rate Loans represented by Morningstar LSTA U.S. Leveraged Loan Index spread represents the three-year discounted spread over SOFR (Secured Overnight Financing Rate). Emerging Markets(USD) represented by J.P. Morgan Emerging Markets Bond Index (EMBI) Global Diversified. High Yield represented by ICE BofA US High Yield Index.

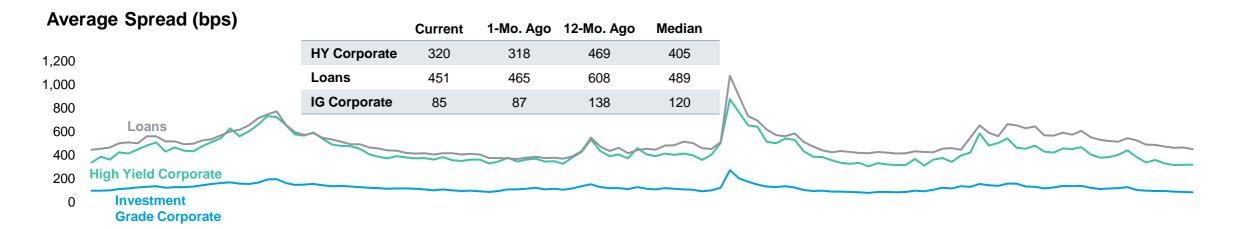
## Corporate Bond Market Update

	Averages							Tota	l Return	s (%)		
	Coupon (%)	Price (\$)	Yield to Worst (%)	Spread (bps)	Maturity (yrs.)	Duration (yrs.)	1-Mo.	3-Mo.	YTD	1Y	3Y	
U.S. High Grade												
Bloomberg U.S. Corp. Investment Grade Index	4.19	91.1	5.52	85	10.7	6.9	1.87	0.56	-1.12	4.40	-2.71	0.9
AAA Index	3.27	82.3	5.01	33	17.5	10.2	2.02	-0.83	-3.91	-0.93	-5.40	-0.8
AA Index	3.54	87.4	5.13	42	12.8	8.0	1.79	-0.09	-2.27	1.57	-4.03	-0.5
A Index	4.05	91.3	5.39	72	10.6	6.9	1.82	0.42	-1.33	3.56	-2.91	0.6
BBB Index	4.14	91.8	5.71	104	10.4	6.7	1.94	0.83	-0.68	5.74	-2.26	1.5
J.S. High Yield												
ICE BofA U.S. High Yield Index	6.25	92.5	8.04	320	4.9	3.3	1.13	1.32	1.63	11.17	1.78	4.0
BB Index	5.63	95.1	6.72	189	5.2	3.6	1.23	1.51	1.34	9.71	1.44	4.2
B Index	6.72	95.2	7.78	291	4.6	3.0	0.96	1.14	1.58	11.31	1.98	3.6
CCC Index	7.23	77.6	14.12	934	4.3	2.9	1.23	0.87	2.81	16.55	2.09	3.6
Morningstar LSTA U.S. Leveraged Loan Index	S+3.61	96.9	9.70	451	4.4	-	0.94	2.41	4.04	13.23	6.15	5.5
BBB Index	S+2.06	100.3	7.31	197	4.8	-	0.77	2.27	3.30	8.93	5.43	4.5
BB Index	S+2.83	99.7	8.24	295	4.7	-	0.79	2.26	3.48	10.74	6.01	4.7
B Index	S+3.88	98.6	9.66	441	4.4	-	0.99	2.63	4.24	14.48	6.58	5.9
CCC Index	S+4.74	83.5	17.43	1228	3.7	-	1.26	1.59	5.78	17.00	4.04	4.7
D Index	-	22.1	-	-	-	-	-2.02	-9.75	-13.14	-17.44	-27.30	-26.3

Past performance is no guarantee of future results.

It is not possible to invest directly in an index. Source: Bloomberg, J.P. Morgan, ICE BofA Data Indices, LLC, Factset, and Leveraged Commentary & Data (LCD), as of 5/31/24. Data provided is for informational use only. See end of report for important additional information. Yield to maturity is shown for the Morningstar LSTA U.S. Leveraged Loan Index. S+ refers to SOFR (Secured Overnight Financing Rate) as the base rate. Loan Index spread represents the three-year discounted spread over SOFR.

## Corporate Bond Market Update



### **Annual Default Rate**



#### Past performance is no guarantee of future results.

It is not possible to invest directly in an index. Source: J.P. Morgan and Leveraged Commentary & Data (LCD), as of 5/31/24. Data provided is for informational use only. See end of report for important additional information. Corporate spreads are in basis points and measure option-adjusted yield spread relative to comparable maturity U.S. Treasuries. Loan Index spread represents the three-year discounted spread over SOFR (Secured Overnight Financing Rate).

## Municipal Bond Market Update

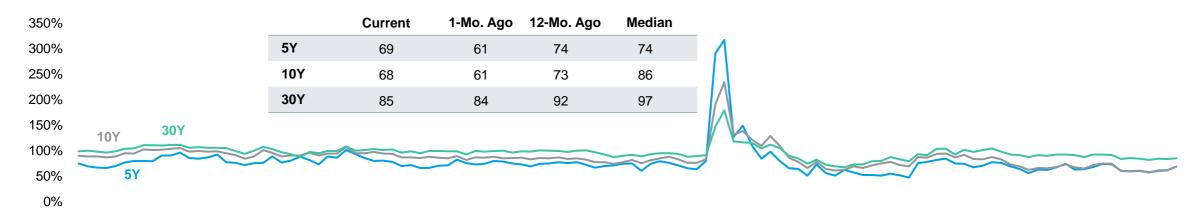
			Averages					Tota	l Returns (	(%)		
	Coupon (%)	Price (\$)	Yield To Worst (%)	Maturity (yrs.)	Duration (yrs.)	1-Mo.	3-Mo.	YTD	1Y	3Y	5Y	10Y
Bloomberg Municipal Bond Index	4.56	100.3	3.93	13.3	6.1	-0.29	-1.53	-1.91	2.67	-1.29	0.93	2.25
AAA Index	4.48	101.0	3.79	12.9	6.4	-0.49	-1.98	-2.64	1.76	-1.58	0.59	1.72
AA Index	4.59	101.3	3.81	12.9	6.0	-0.36	-1.71	-2.12	2.22	-1.36	0.77	2.03
A Index	4.54	98.6	4.15	13.8	6.0	-0.10	-1.04	-1.17	3.86	-0.91	1.32	2.71
BBB Index	4.52	94.9	4.60	17.1	7.1	0.14	-0.52	-0.67	5.15	-0.96	1.65	3.40
5-Year Index	4.70	103.6	3.63	4.9	3.6	-0.65	-1.58	-1.83	1.90	-0.94	0.73	1.46
10-Year Index	4.57	103.5	3.69	9.9	5.5	-1.18	-2.60	-3.04	1.16	-1.22	0.95	2.32
22+ Year Index	4.54	95.6	4.41	26.5	9.8	0.46	-1.25	-1.98	3.84	-2.79	0.52	2.77
Bloomberg High Yield Municipal Bond Index	4.65	65.6	5.63	19.5	6.9	0.76	1.33	1.65	8.19	-0.27	2.61	4.22
Hospital	5.29	85.6	6.40	20.5	6.6	1.08	2.75	2.80	8.22	-1.36	0.62	3.52
IDR/PCR	4.27	39.3	5.76	19.4	7.0	0.56	0.68	1.32	7.37	-0.55	2.94	5.49
Tobacco	2.30	18.6	6.31	28.5	10.6	0.36	-1.21	-2.49	7.10	-2.10	3.42	6.88
Puerto Rico	3.65	56.4	4.72	19.1	6.8	0.63	0.27	1.89	11.04	1.28	5.40	4.34

#### Past performance is no guarantee of future results.

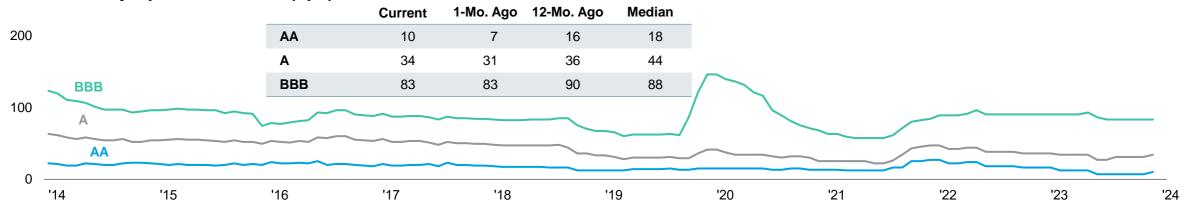
It is not possible to invest directly in an index. Source: Bloomberg, Morningstar as of 5/31/24. Coupon and Yield To Worst figures are based on average market prices while Price is based on an average of par value. Data provided is for informational use only. See end of report for important additional information.

## Municipal Bond Market Update

### **AAA Muni-to-Treasury Yield Ratios**



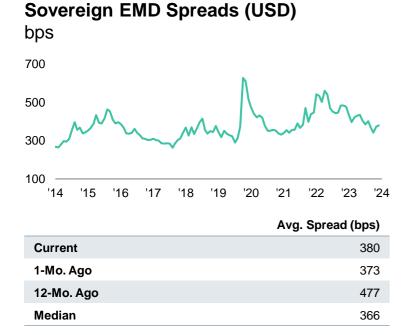
### **Credit Quality Spreads vs. AAA (bps)**

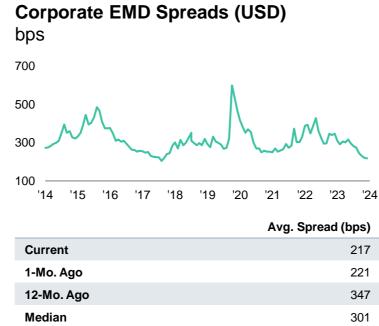


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It is not possible to invest directly in an index. Source: Bloomberg as of 5/31/24. Data provided is for informational use only. See end of report for important additional information. All spreads are in basis points and measure option-adjusted yield spread relative to comparable maturity U.S. Treasuries.

## **Emerging Markets Bond Market Update**





<b>Local</b> bps	EM	D Yi	ield	s (%	<b>b)</b>					
10%										
8%								4		
6%	<b>~~~</b>	w	~	~~	5		_	الممر	<u>~</u>	٠
4%						~	<i></i>			
2% —										
'14	'15	'16	'17	'18	'19	'20	'21	'22	'23	'24
								Avg	. Yield	d (%)
Curren	t								6	.61
1-Mo. A	Ago								6	.63
12-Mo.	Ago								6	.45
Mediar	ı								6	.29

		l otal Returns (%)									
	Coupon (%)	Price (\$)	Yield (%)	Duration	1-Mo.	3-Mo.	YTD	1Y	3Y	5Y	10Y
JPMorgan Emerging Markets Bond Index (EMBI) Global Diversified	5.42	83.7	8.42	6.5	1.80	1.77	1.72	10.98	-2.56	0.52	2.58
JPMorgan Corporate Emerging Markets Bond Index (CEMBI) Broad Diversified	5.02	92.7	6.79	4.3	1.46	1.57	2.89	9.46	-0.36	2.48	3.50
JPMorgan Government Bond Index-Emerging Markets (GBI-EM) Global Diversified	5.44	-	6.61	5.0	1.61	-0.59	-2.66	5.09	-3.31	0.00	-0.66

Past performance is no guarantee of future results.

It is not possible to invest directly in an index. Source: J.P. Morgan, Morningstar as of 5/31/24. Data provided is for informational use only. See end of report for important additional information. All spreads are in basis points and measure option-adjusted yield spread relative to comparable maturity U.S. Treasuries.

## Asset Class Return Analysis (%)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD 2024
Higher	Municipal <b>9.05</b>	Municipal <b>3.30</b>	High Yield <b>17.49</b>	EMD (Local Currency) 15.21	Municipal 1.28	Investment Grade <b>14.54</b>	Global Agg Ex-U.S. <b>10.11</b>	High Yield <b>5.36</b>	Bank Loan <b>-0.77</b>	High Yield <b>13.46</b>	Bank Loan <b>4.04</b>
	Investment Grade <b>7.46</b>	MBS <b>1.51</b>	EMD (Hard Currency) <b>10.19</b>	Global Agg Ex-U.S. <b>10.51</b>	MBS <b>0.99</b>	EMD (Hard Currency) <b>14.42</b>	Investment Grade <b>9.89</b>	Bank Loan <b>5.20</b>	Municipal -8.53	Bank Loan 13.32	EMD (Corp. Bonds) <b>2.89</b>
	MBS <b>6.08</b>	EMD (Corp. Bonds) 1.30	Bank Loan 10.16	EMD (Hard Currency) 9.32	Treasury <b>0.86</b>	High Yield <b>14.41</b>	Treasury <b>8.00</b>	Municipal <b>1.52</b>	High Yield -11.22	EMD (Local Currency) <b>12.70</b>	High Yield 1.63
	EMD (Hard Currency) <b>5.53</b>	EMD (Hard Currency) <b>1.23</b>	EMD (Local Currency) <b>9.94</b>	EMD (Corp. Bonds) <b>7.96</b>	Bank Loan <b>0.44</b>	EMD (Local Currency) <b>13.47</b>	EMD (Corp. Bonds) <b>7.13</b>	EMD (Corp. Bonds) <b>0.91</b>	EMD (Local Currency) -11.69	EMD (Hard Currency) <b>10.45</b>	EMD (Hard Currency) <b>1.17</b>
	Treasury <b>5.05</b>	Treasury <b>0.84</b>	EMD (Corp. Bonds) <b>9.65</b>	High Yield <b>7.48</b>	EMD (Corp. Bonds) -1.65	EMD (Corp. Bonds) 13.09	High Yield <b>6.17</b>	Investment Grade -1.04	MBS -11.81	EMD (Corp. Bonds) <b>9.08</b>	Investment Grade -1.12
	EMD (Corp. Bonds) <b>4.96</b>	Investment Grade -0.68	Investment Grade 6.11	Investment Grade 6.42	Global Agg Ex-U.S. <b>-2.15</b>	Bank Loan <b>8.64</b>	EMD (Hard Currency) <b>5.88</b>	MBS -1.04	EMD (Corp. Bonds) -12.26	Investment Grade 8.52	Treasury -1.85
	High Yield <b>2.50</b>	Bank Loan -0.69	MBS <b>1.67</b>	Municipal <b>5.45</b>	High Yield -2.26	Municipal <b>7.54</b>	Municipal <b>5.21</b>	EMD (Hard Currency) -1.51	Treasury -12.46	Municipal <b>6.40</b>	Municipal -1.91
	Bank Loan 1.60	High Yield -4.64	Global Agg Ex-U.S. <b>1.49</b>	Bank Loan <b>4.12</b>	Investment Grade -2.51	Treasury 6.86	MBS <b>3.87</b>	Treasury -2.32	Investment Grade -15.76	Global Agg Ex-U.S. <b>5.72</b>	MBS -2.12
	Global Agg Ex-U.S. <b>-3.08</b>	Global Agg Ex-U.S. <b>-6.02</b>	Treasury 1.04	MBS <b>2.47</b>	EMD (Hard Currency) -4.61	MBS <b>6.35</b>	Bank Loan <b>3.12</b>	Global Agg Ex-U.S. <b>-7.05</b>	EMD (Hard Currency) -16.45	MBS <b>5.05</b>	EMD (Local Currency) -2.66
Lower	EMD (Local Currency) -5.72	EMD (Local Currency) -14.92	Municipal <b>0.25</b>	Treasury <b>2.31</b>	EMD (Local Currency) -6.21	Global Agg Ex-U.S. <b>5.09</b>	EMD (Local Currency) <b>2.69</b>	EMD (Local Currency) -8.75	Global Agg Ex-U.S. -18.70	Treasury <b>4.05</b>	Global Agg Ex-U.S. <b>-4.77</b>

Past performance is no guarantee of future results. It is not possible to invest directly in an index. In general, fixed income investments are subject to credit and interest rate risks. High yield investments may have a higher degree of credit and liquidity risk. Foreign securities are subject to currency, political, economic and market risks. Investors should carefully review the risks of each asset class prior to investing. Source: Morningstar as of 5/31/24. Data provided is for informational use only. See end of report for important additional information. Investment Grade represented by Bloomberg U.S. Corporate Index. MBS represented by Bloomberg U.S. Mortgage Backed Securities (MBS) Index. Treasury represented by Bloomberg U.S. Treasury Index. High Yield represented by ICE BofA US High Yield Index. Municipal represented by Bloomberg Municipal Bond Index. Bank Loan represented by Morningstar LSTA U.S. Leveraged Loan Index. Global Agg Ex-U.S. represented by Bloomberg Global Aggregate Ex-USD Index. EMD (Local Currency) represented by J.P. Morgan Government Bond Index (EMBI) Global Diversified. EMD (Hard Currency) represented by J.P. Morgan Emerging Markets Bond Index (EMBI) Broad Diversified.

## Performance: Market Barometer (%)













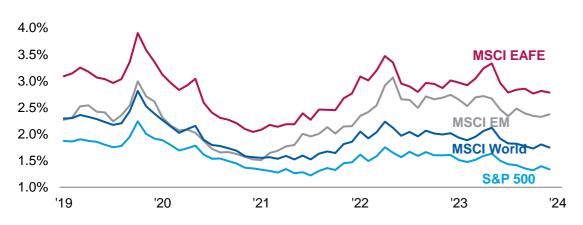
<b>Global</b>	<b>U.S.</b>
5.12	9.57
International 3.06	Emerging Markets -6.23

#### Past performance is no guarantee of future results.

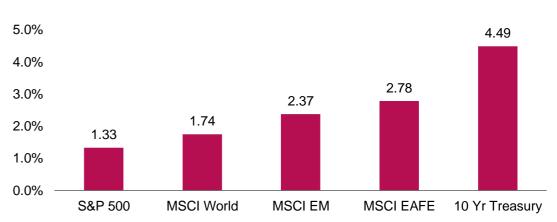
It is not possible to invest directly in an index. Source: Morningstar as of 5/31/24. Data provided is for informational use only. See end of report for important additional information. Returns over 1 year are annualized. Large Cap Value represented by Russell 1000 Value Index. Large Cap Core represented by Russell 1000 Growth Index. Mid Cap Value represented by Russell Mid Cap Value Index. Mid Cap Growth represented by Russell Mid Cap Index. Mid Cap Growth represented by Russell 2000 Value Index. Small Cap Value Index. Small Cap Growth represented by Russell 2000 Growth Index. Global represented by Russell 2000 Growth Index. Emerging Markets represented by MSCI Emerging Markets Index.

## Dividend Yields and Volatility Analysis

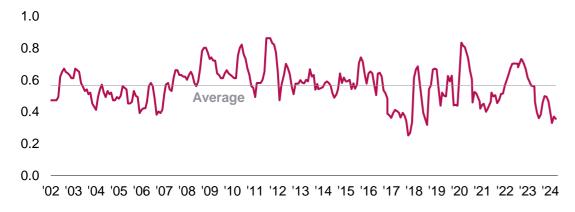
### **Historical Yields**



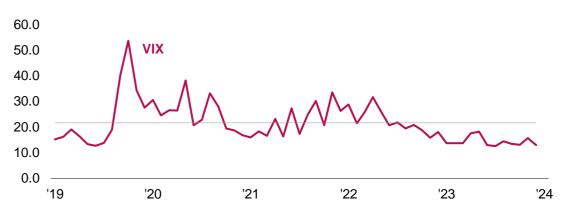
### **Current Yields**



### Correlation of S&P 500 Stocks



### **CBOE Market Volatility Index (VIX)**

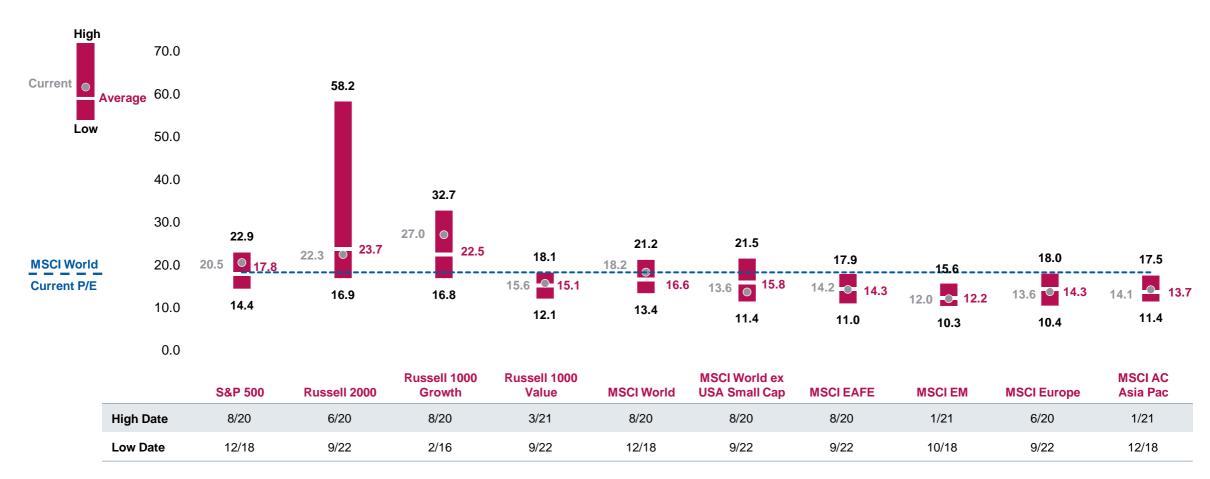


Past performance is no guarantee of future results.

It is not possible to invest directly in an index. Source: FactSet and Ned Davis Research as of 5/31/24. Correlation of S&P 500 Stocks is measured by the median 63-day rolling correlation of one day returns data provided is for informational use only. See end of report for important additional information.

## Valuation Analysis

### Regions/Styles: Current NTM P/E vs. 10-Year High, Low, Average



Source: FactSet as of 5/31/24. NTM P/E is market price per share divided by expected earnings per share over the next twelve months. Data provided is for informational use only. See end of report for important additional information. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass.

## Valuation Analysis

### S&P 500 Sectors: Current NTM P/E vs. 10-Year High, Low, Average

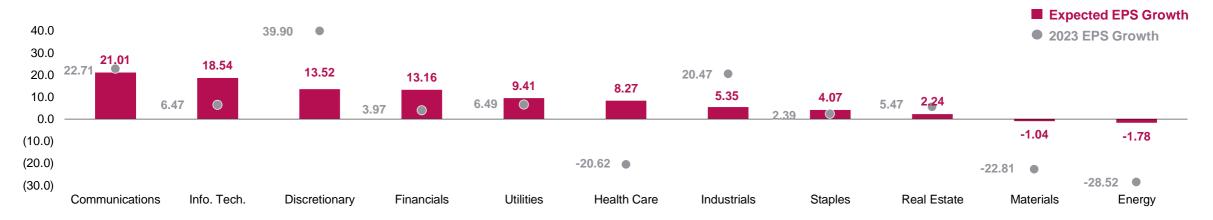


Source: FactSet as of 5/31/24. NTM P/E is market price per share divided by expected earnings per share over the next twelve months. The Real Estate sector is excluded from this 10-year chart since the sector was created on August 31, 2016. Data provided is for informational use only. See end of report for important additional information. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass.

## Corporate Earnings Growth



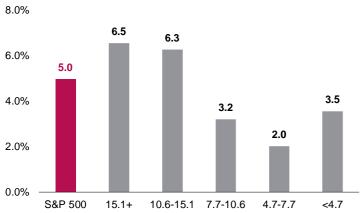
### S&P 500 Sectors



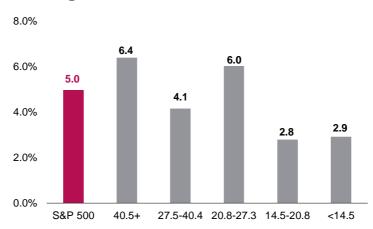
Source: FactSet as of 5/31/24. Expected EPS Growth is defined as the expected % change in the EPS growth from the beginning of the current calendar year though the end of the calendar year. 2023 EPS Growth is defined as the % change in EPS from the beginning of the year through the end of the year. Data provided is for informational use only. See end of report for important additional information. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass.

## S&P 500 Index: 1-Month Return Analysis

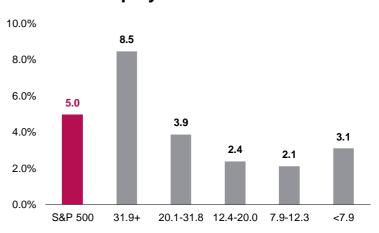
# 3-5 Year Earnings Growth



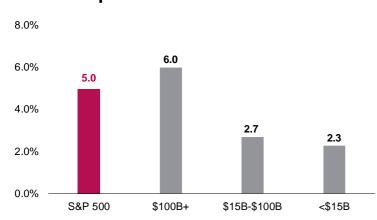
### **Trailing 12 Month P/E**



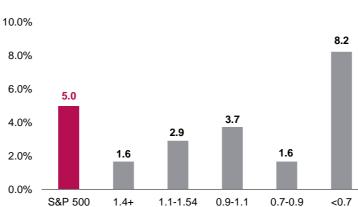
### **Return On Equity**



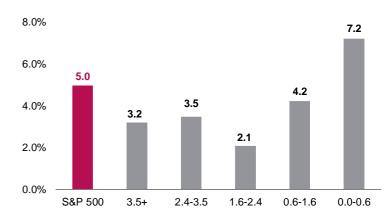
### **Market Cap**



### Beta



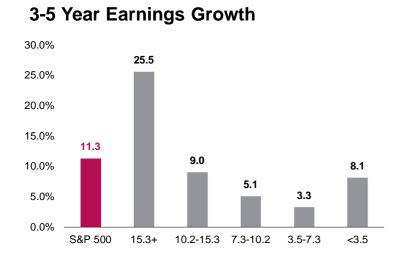
### **Dividend Yield**

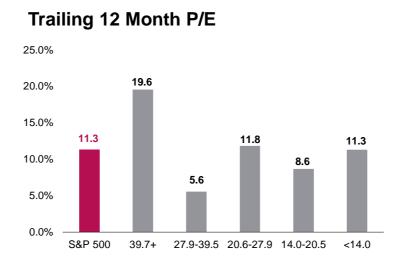


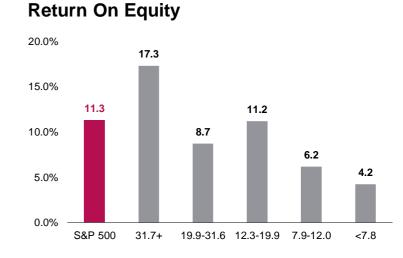
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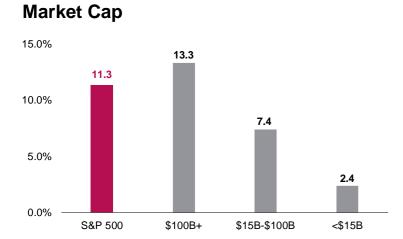
It is not possible to invest directly in an index. Source: FactSet as of 5/31/24. Data provided is for informational use only. See end of report for important additional information.

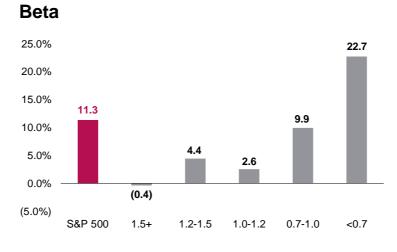
## S&P 500 Index: YTD Analysis

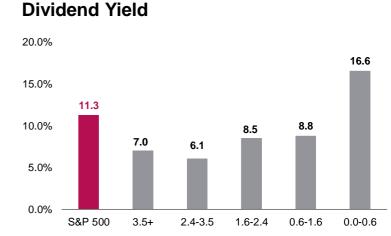








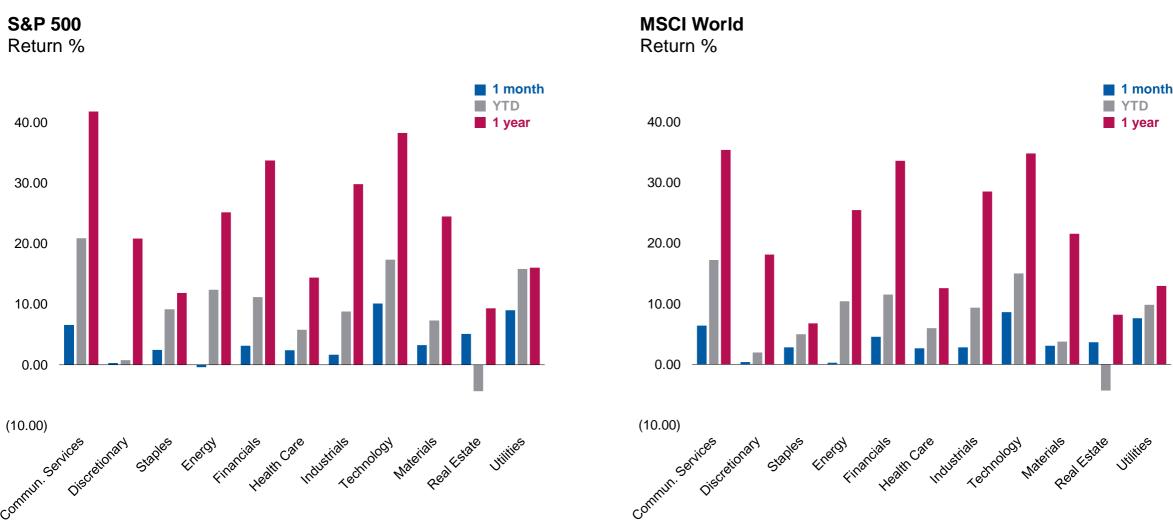




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## Index Sectors: Return Analysis

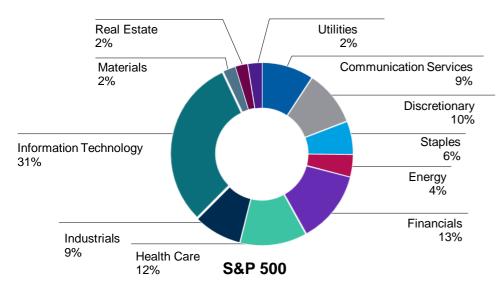


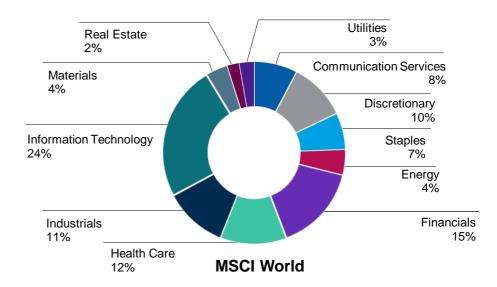
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## **Current Characteristics and Sector Weights**

	S&P 500	R2000	R1000G	R1000V	MSCI World	MSCI World ex USA Small Cap	MSCI EAFE	MSCI EM	MSCI Europe	MSCI Asia Pac
Number of Holdings	503	1928	439	846	1464	2359	766	1373	420	1461
Maximum Market Cap	\$3,085.37B	\$45.94B	\$3,085.37B	\$897.09B	\$2,927.84B	\$11.44B	\$434.91B	\$636.25B	\$434.91B	\$636.25B
Minimum Market Cap	\$6.74B	\$0.01B	\$0.70B	\$0.35B	\$1.59B	\$0.08B	\$1.59B	\$0.12B	\$2.13B	\$0.12B
Dividend Yield	1.33	1.31	0.67	2.11	1.74	2.73	2.78	2.37	2.87	2.29
NTM PE	20.47	22.33	26.98	15.60	18.22	13.59	14.15	11.98	13.64	14.09
Price to Book	4.68	2.06	12.26	2.49	3.30	1.41	1.91	1.73	2.14	1.67
Price to Cash Flow	16.47	13.00	24.71	11.35	13.53	9.49	9.47	7.98	8.32	10.46
Price to Sales	2.78	1.26	4.69	1.71	2.17	0.89	1.38	1.34	1.40	1.36
Est 3-5 Yr EPS Growth	15.71	13.90	19.08	10.88	14.26	12.90	10.33	19.24	10.67	14.79
5Yr. Div Growth Rate	4.44	6.25	5.40	1.16	2.71	4.90	0.64	2.71	-0.25	0.96





Source: FactSet as of 5/31/24. Data provided is for informational use only. See end of report for important additional information. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass.

## **EQUITIES**

# Asset Class Return Analysis (%)

		1-Mo.	3-Mo.	YTD	1Y	3Y	5Y	10Y	2023	2022	2021	2020	2019
	S&P 500	4.96	3.91	11.30	28.19	9.57	15.80	12.69	26.29	-18.11	28.71	18.40	31.49
	Russell 1000 Defensive	4.10	2.82	8.10	21.12	7.73	12.77	11.66	20.23	-16.43	26.93	13.93	30.47
	Russell 1000 Dynamic	5.30	4.10	13.06	35.33	9.12	17.91	12.94	33.34	-21.94	25.57	27.69	32.35
U.S.	Russell 2500	4.16	1.19	3.91	21.70	0.60	10.14	8.66	17.42	-18.37	18.18	19.99	27.77
Equities	Russell 1000 Growth	5.99	3.28	13.08	33.60	11.12	19.37	15.80	42.68	-29.14	27.60	38.49	36.39
	Russell 1000 Value	3.17	3.70	7.64	21.71	5.45	10.74	8.61	11.46	-7.54	25.16	2.80	26.54
	Russell Mid Cap	2.85	1.52	5.66	23.11	3.10	11.07	9.47	17.23	-17.32	22.58	17.10	30.54
	Russell 2000	5.02	1.12	2.68	20.12	-1.65	8.61	7.66	16.93	-20.44	14.82	19.96	25.52
	CBOE S&P 500 Buywrite BXM	1.09	1.92	5.72	9.26	5.12	6.23	5.61	11.82	-11.37	20.47	-2.75	15.68
	MSCI World	4.47	3.82	9.52	24.92	6.67	12.76	9.13	23.79	-18.14	21.82	15.90	27.67
	MSCI EAFE	3.87	4.54	7.07	18.53	3.06	8.05	4.60	18.24	-14.45	11.26	7.82	22.01
	MSCI EM	0.56	3.52	3.41	12.39	-6.23	3.55	2.66	9.83	-20.09	-2.54	18.31	18.44
Global	MSCI AC Asia Pac	1.70	3.01	5.31	14.32	-3.13	5.45	4.68	11.45	-17.22	-1.46	19.71	19.36
Equities	MSCI ACWI	4.06	3.79	8.88	23.56	5.12	11.68	8.40	22.20	-18.36	18.54	16.25	26.60
_4	MSCI Europe	4.84	6.70	8.24	19.71	4.19	9.03	4.39	19.89	-15.06	16.30	5.38	23.77
	MSCI World Small Cap	4.55	3.01	3.50	18.30	-0.57	8.51	6.91	15.76	-18.76	15.75	15.96	26.19
	MSCI World Ex USA Small Cap	4.38	5.48	3.98	14.36	-2.55	6.25	4.58	12.62	-20.59	11.14	12.78	25.41
	FTSE 100	3.79	10.66	8.90	18.74	5.77	7.05	3.03	14.38	-7.01	17.36	-8.73	22.03
	FTSE All Small	6.24	10.24	7.24	17.67	-2.64	7.58	4.52	12.57	-23.06	22.15	10.77	22.63
	STOXX Europe 600	4.89	6.78	8.23	19.98	3.67	9.11	4.52	19.87	-16.14	16.09	6.83	24.53
	Nikkei 225 Average	0.35	-5.89	3.80	12.43	-0.86	6.91	7.10	22.05	-19.49	-4.69	23.99	21.35
	S&P 500 Comm. Services	6.58	8.89	20.88	41.80	5.72	14.60	9.29	55.80	-39.89	21.57	23.61	32.69
	S&P 500 Confill. Services	0.30	-3.95	0.73	20.82	1.90	11.14	11.93	42.41	-39.09	24.43	33.30	27.94
Sectors	S&P 500 Cons Staples	2.45	5.08	9.18	11.86	7.13	10.61	8.92	0.52	-0.62	18.63	10.75	27.94
	S&P 500 Cons Staples S&P 500 Energy	-0.39	9.33	12.38	25.16	26.85	15.27	3.94	-1.33	65.72	54.64	-33.68	11.81
	S&P 500 Energy S&P 500 Financials	3.16	3.56	11.16	33.70	5.15	12.23	10.94	12.15	-10.53	35.04	-1.69	32.13
	S&P 500 Health Care	2.38	-0.51	5.78	14.36	6.90	12.25	11.10	2.06	-1.95	26.13	13.45	20.82
	S&P 500 Industrials	1.65	2.34	8.77	29.78	7.31	13.43	10.53	18.13	-5.48	21.12	11.06	29.37
	S&P 500 Info Tech	10.08	6.15	17.31	38.23	18.92	27.13	21.97	57.84	-28.19	34.53	43.89	50.29
	S&P 500 Materials	3.22	4.89	7.30	24.48	3.70	14.08	8.65	12.55	-12.27	27.28	20.73	24.58
	S&P 500 Real Estate	5.08	-2.14	-4.38	9.30	-0.97	4.35	6.84	12.36	-12.27	46.19	-2.17	29.01
	S&P 500 Itellities	8.97	18.10	15.82	15.99	7.12	8.02	9.13	-7.08	1.57	17.67	0.48	26.35
!	Car Coo Cuntico	0.37	10.10	10.02	10.00	1.12	0.02	3.10	-7.00	1.01	17.07	0.40	20.00

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## **EQUITIES**

# Asset Class Return Analysis (%)

Higher	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD 2024
A A	S&P 500 <b>13.69</b>	Growth <b>5.67</b>	Small-Cap <b>21.31</b>	Emerging Markets <b>37.28</b>	Growth -1.51	Growth <b>36.39</b>	Growth 38.49	S&P 500 <b>28.71</b>	Value <b>-7.54</b>	Growth <b>42.68</b>	Growth 13.08
	Value <b>13.45</b>	International Small-Cap 5.46	Value <b>17.34</b>	International Small-Cap <b>31.04</b>	S&P 500 -4.38	S&P 500 <b>31.49</b>	Small-Cap 19.96	Growth <b>27.60</b>	International -14.45	S&P 500 <b>26.29</b>	S&P 500 <b>11.30</b>
	Mid-Cap <b>13.22</b>	S&P 500 <b>1.38</b>	Mid-Cap <b>13.80</b>	Growth 30.21	Value -8.27	Mid-Cap <b>30.54</b>	S&P 500 <b>18.40</b>	Value <b>25.16</b>	Mid-Cap <b>-17.32</b>	Global <b>22.20</b>	Global 8.88
	Growth <b>13.05</b>	International -0.81	S&P 500 <b>11.96</b>	International 25.03	Mid-Cap <b>-9.06</b>	Global <b>26.60</b>	Emerging Markets <b>18.31</b>	Mid-Cap <b>22.58</b>	S&P 500 <b>-18.11</b>	International 18.24	Value <b>7.64</b>
	Small-Cap <b>4.89</b>	Global <b>-2.36</b>	Emerging Markets <b>11.19</b>	Global <b>23.97</b>	Global <b>-9.42</b>	Value <b>26.54</b>	Mid-Cap <b>17.10</b>	Global <b>18.54</b>	Global <b>-18.36</b>	Mid-Cap <b>17.23</b>	International <b>7.07</b>
	Global <b>4.16</b>	Mid-Cap <b>-2.44</b>	Global <b>7.86</b>	S&P 500 <b>21.83</b>	Small-Cap -11.01	Small-Cap <b>25.52</b>	Global <b>16.25</b>	Small-Cap 14.82	Emerging Markets <b>-20.09</b>	Small-Cap 16.93	Mid-Cap <b>5.66</b>
	Emerging Markets <b>-2.19</b>	Value -3.83	Growth <b>7.08</b>	Mid-Cap <b>18.52</b>	International -13.79	International Small-Cap <b>25.41</b>	International Small-Cap 12.78	International 11.26	Small-Cap <b>-20.44</b>	International Small-Cap 12.62	International Small-Cap 3.98
	International -4.90	Small-Cap -4.41	International Small-Cap <b>4.32</b>	Small-Cap 14.65	Emerging Markets -14.58	International 22.01	International 7.82	International Small-Cap 11.14	International Small-Cap -20.59	Value <b>11.46</b>	Emerging Markets <b>3.41</b>
Lower	International Small-Cap -5.34	Emerging Markets -14.92	International 1.00	Value <b>13.66</b>	International Small-Cap -18.07	Emerging Markets 18.42	Value <b>2.80</b>	Emerging Markets <b>-2.54</b>	Growth <b>-29.14</b>	Emerging Markets <b>9.83</b>	Small-Cap 2.68

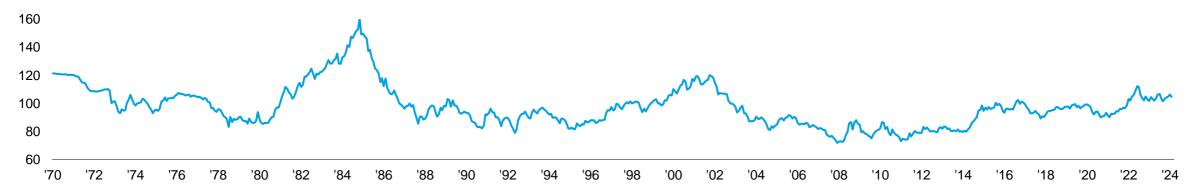
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It is not possible to invest directly in an index. In general, Foreign securities are subject to currency, political, economic and market risks. The risks of investing in emerging market countries are greater than investments in foreign developed countries. Investors should carefully review the risks of each asset class prior to investing. Source: Morningstar as of 5/31/24. Data provided is for informational use only. See end of report for important additional information. Small-Cap represented by Russell 2000 Index. Emerging Markets represented by MSCI Emerging Markets Index. Value represented by Russell 1000 Value Index. Mid-Cap represented by Russell Midcap Index. Global represented by MSCI EAFE Index. International Small-Cap represented by MSCI World Ex USA Small Cap Index.

# Developed Market Currency Performance and Yields

	Spot Returns vs. USD (%) Spot Returns vs. EU						JR (%)		Local Interest Rates (%)		
Currency	1-Mo.	YTD	1Y	3Y	5Y	1-Mo.	YTD	1Y	3Y	5Y	1Y
U.S. Dollar (USD)	-	-	-	-	-	-1.51	1.75	-1.80	4.04	0.52	5.11
Euro (EUR) *	1.53	-1.72	1.83	-3.89	-0.52	-	-	-	-	-	3.42
British Pound (GBP)	1.68	-0.13	2.73	-3.61	0.20	0.15	1.63	0.88	0.29	0.73	4.78
Japanese Yen (JPY)	0.14	-10.29	-11.09	-11.37	-7.13	-1.37	-8.71	-12.69	-7.79	-6.64	0.36
Australian Dollar (AUD)	2.42	-2.54	2.77	-4.93	-0.82	0.88	-0.83	0.92	-1.09	-0.30	4.29
Canadian Dollar (CAD)	0.78	-3.27	-0.28	-3.95	-0.17	-0.73	-1.57	-2.07	-0.06	0.36	4.56
New Zealand Dollar (NZD)	3.83	-2.96	2.51	-5.50	-1.18	2.26	-1.26	0.67	-1.68	-0.66	5.02
Norwegian Krone (NOK)	5.45	-3.29	6.11	-7.47	-3.58	3.86	-1.60	4.20	-3.73	-3.07	4.33
Swedish Krona (SEK)	4.36	-4.18	3.48	-7.62	-1.98	2.79	-2.50	1.63	-3.88	-1.46	3.34
Danish Krone (DKK)	1.52	-1.78	1.67	-3.98	-0.50	-0.01	-0.06	-0.16	-0.10	0.02	3.29
Swiss Franc (CHF)	1.66	-6.71	1.33	-0.10	2.20	0.13	-5.07	-0.49	3.93	2.74	1.05

## **U.S. Dollar Index**



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# **Emerging Market Currency Performance and Yields**

	Spot Returns vs. USD (%)  Spot Returns vs. EUR (%)					Local Interest Rates (%)					
Currency	1-Mo.	YTD	1Y	3Y	5Y	1-Mo.	YTD	1Y	3Y	5Y	1Y
Asia, excluding Japan											
Chinese Renminbi (CNY)	-0.03	-2.10	-1.93	-4.24	-0.96	-1.54	-0.38	-3.69	-0.37	-0.44	1.62
Malaysian Ringgit (MYR)	1.39	-2.38	-1.94	-4.31	-2.30	-0.14	-0.67	-3.71	-0.44	-1.79	3.56
Indian Rupee (INR)	-0.04	-0.31	-0.89	-4.53	-3.54	-1.55	1.44	-2.67	-0.68	-3.04	7.04
Indonesian Rupiah (IDR)	0.06	-5.25	-7.75	-4.22	-2.56	-1.45	-3.59	-9.41	-0.34	-2.05	6.46
Philippine Peso (PHP)	-1.28	-5.37	-4.03	-6.59	-2.27	-2.77	-3.71	-5.76	-2.81	-1.76	6.02
Singapore Dollar (SGD)	0.89	-2.41	0.23	-0.76	0.36	-0.63	-0.70	-1.57	3.25	0.89	3.51
South Korean Won (KRW)	-0.18	-6.98	-4.14	-7.07	-2.97	-1.68	-5.35	-5.86	-3.32	-2.46	3.37
Taiwanese Dollar (TWD)	0.52	-5.26	-5.14	-5.19	-0.49	-1.00	-3.60	-6.85	-1.36	0.03	1.32
Thai Baht (THB)	0.73	-7.22	-5.41	-5.31	-2.97	-0.78	-5.60	-7.11	-1.48	-2.46	2.36
Latin America											
Brazilian Real (BRL)	-1.38	-7.58	-2.55	-0.05	-5.72	-2.87	-5.96	-4.30	3.99	-5.23	10.49
Chilean Peso (CLP)	4.07	-4.95	-11.37	-7.73	-5.10	2.50	-3.28	-12.97	-4.00	-4.61	4.86
Colombian Peso (COP)	0.53	0.07	14.21	-1.43	-2.73	-0.98	1.83	12.16	2.56	-2.22	9.62
Mexican Peso (MXN)	-0.09	-0.70	4.13	5.29	2.83	-1.59	1.04	2.26	9.55	3.37	11.34
Peruvian New Sol (PEN)	0.07	-1.13	-1.70	0.64	-2.10	-1.44	0.60	-3.46	4.71	-1.58	5.38

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# **Emerging Market Currency Performance and Yields**

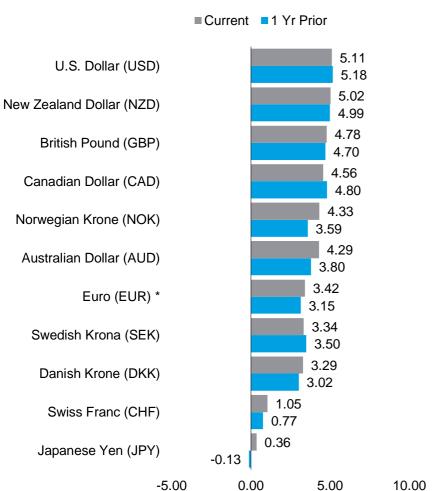
	Spot Returns vs. USD (%)					Spot Returns vs. EUR (%)					Local Interest Rate	
Currency	1-Mo.	YTD	1Y	3Y	5Y	1-Mo.	YTD	1Y	3Y	5Y	1	
Europe												
Czech Koruna (CZK)	3.46	-1.80	-2.04	-2.94	0.37	1.90	-0.07	-3.80	0.98	0.90	4.02	
Hungarian Forint (HUF)	1.74	-3.70	-3.20	-7.54	-4.09	0.21	-2.01	-4.94	-3.80	-3.59	6.65	
Polish Zloty (PLN)	2.78	-0.12	8.03	-2.37	-0.49	1.23	1.63	6.09	1.57	0.03	4.85	
Romanian Leu (RON)	1.53	-1.76	1.64	-4.27	-1.47	0.00	-0.03	-0.18	-0.40	-0.95	5.92	
Russian Ruble (RUB)	3.43	-1.08	-10.12	-6.72	-6.34	1.87	0.66	-11.74	-2.95	-5.85		
Turkish New Lira (TRY)	0.52	-8.31	-35.74	-35.92	-28.94	-0.99	-6.70	-36.89	-33.33	-28.57	40.18	
Middle East and Africa												
Ghanaian Cedi (GHS)	-7.32	-19.22	-24.07	-26.72	-18.36	-8.72	-17.80	-25.43	-23.75	-17.93	17.90	
Israeli Shekel (ILS)	0.33	-3.21	0.39	-4.42	-0.50	-1.18	-1.51	-1.41	-0.56	0.02	4.28	
Kenyan Shilling (KES)	3.45	20.31	6.21	-6.20	-4.95	1.89	22.42	4.30	-2.41	-4.45	16.70	
Moroccan Dirham (MAD)	1.55	-0.83	2.43	-3.91	-0.46	0.02	0.91	0.59	-0.03	0.06	2.94	
Nigerian Naira (NGN)	-9.60	-40.56	-69.22	-35.22	-24.90	-10.96	-39.52	-69.77	-32.60	-24.51	20.70	
South African Rand (ZAR)	0.04	-2.87	5.25	-10.01	-5.01	-1.46	-1.16	3.36	-6.37	-4.52	9.18	
Ugandan Shilling (UGX)	-0.08	-0.79	-1.05	-2.37	-0.26	-1.58	0.95	-2.83	1.57	0.26	13.75	
Zambian Kwacha (ZMK)	2.88	-1.21	-25.00	-4.71	-12.69	1.33	0.52	-26.35	-0.86	-12.23	16.00	

#### Past performance is no guarantee of future results.

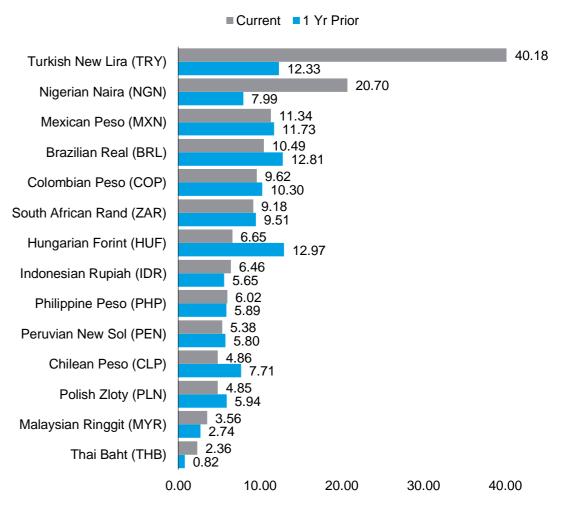
It is not possible to invest directly in an index. Source: Factset, Bloomberg as of 5/31/24. Data provided is for informational use only. See end of report for important additional information..

# Local Sovereign Currency Yields

# **Developed Market Local Interest Rates % (1 Year)**



# **Emerging Market Local Interest Rates % (1 Year)**



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15.00

# Commodities Return Analysis (%)

Index	1-Mo.	3-Mo.	YTD	1Y	3Y	5Y
Bloomberg Commodity Index	1.76	7.95	6.79	10.95	6.85	8.15
Bloomberg Sub Agriculture	3.67	5.21	-0.41	0.99	4.90	10.39
Coffee	3.10	23.38	24.47	41.49	17.53	15.59
Corn	0.34	2.49	-8.33	-19.11	-3.65	3.98
Cotton	-2.46	-24.04	-6.43	-6.53	7.37	6.87
Soybean	4.08	5.91	-6.57	6.91	4.26	12.69
Soybean Oil	6.32	0.93	-5.34	7.37	-2.11	16.85
Sugar	-5.29	-13.06	-4.67	-18.90	10.14	11.71
Wheat	12.98	16.30	7.15	5.78	-5.11	1.15
Bloomberg Sub Energy	-1.40	1.36	3.76	10.13	9.10	0.27
Brent Crude	-4.72	2.74	10.95	25.56	23.70	15.39
Heating Oil	-5.65	-6.64	4.04	32.66	31.23	16.56
Natural Gas	12.06	1.17	-18.18	-33.71	-26.85	-28.08
Unleaded Gas	-8.50	-2.57	8.88	19.84	27.90	19.15
WTI Crude Oil	-4.85	2.63	12.03	27.02	17.30	4.80

Index	1-Mo.	3-Mo.	YTD	1Y	3Y	5Y
Bloomberg Sub Industrial Metals	1.81	18.01	15.13	20.73	3.09	10.05
Aluminum	2.52	19.08	10.98	15.98	1.58	6.12
Copper	1.28	20.55	19.58	29.07	1.20	12.52
Nickel	2.43	10.36	18.73	-4.15	3.71	10.75
Zinc	1.17	22.61	11.56	35.33	2.91	5.65
Bloomberg Sub Precious Metals	4.56	18.15	15.98	20.56	5.67	11.96
Gold	1.35	13.51	12.49	17.75	6.42	11.07
Platinum	10.39	18.29	4.56	6.73	-2.54	6.00
Silver	14.72	33.49	26.78	28.50	2.47	14.57
Bloomberg Sub Livestock	-1.30	-2.88	8.63	11.47	3.56	-1.49
Lean Hogs	-7.96	-8.65	7.40	16.10	-6.30	-8.49
Live Cattle	3.72	1.05	10.31	9.80	9.88	2.86

#### Past performance is no guarantee of future results.

It is not possible to invest directly in an index. Source: Morningstar as of 5/31/24. Data provided is for informational use only. See end of report for important additional information. Commodity represented by Bloomberg Agriculture Subindex. Energy represented by Bloomberg Energy Subindex. Grains represented by Bloomberg Grains Subindex. Industrial Metals represented by Bloomberg Livestock Subindex. Precious Metals represented by Bloomberg Livestock Subindex. Precious Metals Subindex.

# Asset Class Return Analysis (%)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD 2024
Higher <del>↑</del>	Managed Futures 18.37	Multi-Strategy 3.84	MLP <b>18.31</b>	Long/Short Equity 13.41	Fixed Income Arbitrage 1.10	Long/Short Equity 12.17	Convertible Arbitrage <b>10.25</b>	MLP <b>40.17</b>	MLP <b>30.92</b>	MLP <b>26.56</b>	MLP <b>12.50</b>
	Multi-Strategy <b>6.09</b>	Long/Short Equity 3.55	Commodity 11.77	Currency 11.54	Global Macro -0.11	Global Macro 10.38	Long/Short Equity 7.86	Commodity <b>27.11</b>	Managed Futures 19.12	Long/Short Equity 10.93	Managed Futures 11.45
	Long/Short Equity 5.55	Equity Market Neutral <b>1.69</b>	Convertible Arbitrage <b>6.60</b>	Equity Market Neutral <b>8.45</b>	Multi-Strategy <b>-1.05</b>	Managed Futures 9.01	Event Driven <b>6.95</b>	Event Driven 12.92	Commodity 16.09	Event Driven <b>9.30</b>	Long/Short Equity 6.41
	MLP <b>4.80</b>	Convertible Arbitrage <b>0.81</b>	Multi-Strategy <b>4.41</b>	Multi-Strategy <b>6.83</b>	Convertible Arbitrage -2.26	Event Driven 8.22	Global Macro 6.53	Global Macro <b>9.60</b>	Global Macro 15.89	Currency 8.44	Multi-Strategy <b>5.50</b>
	Fixed Income Arbitrage <b>4.37</b>	Fixed Income Arbitrage <b>0.59</b>	Fixed Income Arbitrage <b>4.29</b>	Fixed Income Arbitrage <b>6.52</b>	Currency -3.33	Convertible Arbitrage <b>8.15</b>	Multi-Strategy <b>5.60</b>	Long/Short Equity 8.35	Equity Market Neutral <b>1.71</b>	Multi-Strategy <b>8.04</b>	Global Macro 5.42
	Global Macro <b>3.11</b>	Global Macro <b>0.18</b>	Global Macro 3.58	Event Driven 6.30	Event Driven -3.95	Commodity <b>7.69</b>	Fixed Income Arbitrage 3.64	Managed Futures 8.19	Multi-Strategy <b>1.27</b>	Fixed Income Arbitrage <b>7.71</b>	Commodity 4.94
	Event Driven 1.57	Managed Futures -0.93	Currency 3.54	Convertible Arbitrage <b>5.01</b>	Long/Short Equity -4.62	Multi-Strategy <b>7.25</b>	Managed Futures 1.86	Multi-Strategy <b>6.97</b>	Fixed Income Arbitrage -0.97	Equity Market Neutral <b>6.73</b>	Equity Market Neutral <b>3.60</b>
	Equity Market Neutral -1.19	Event Driven -6.29	Event Driven 2.68	Managed Futures 3.29	Equity Market Neutral <b>-5.00</b>	MLP <b>6.56</b>	Currency 1.73	Convertible Arbitrage <b>6.33</b>	Convertible Arbitrage -3.32	Convertible Arbitrage <b>4.04</b>	Event Driven 3.58
	Convertible Arbitrage -1.68	Currency -7.61	Long/Short Equity -3.43	Global Macro 2.14	Managed Futures -6.67	Fixed Income Arbitrage <b>6.10</b>	Equity Market Neutral <b>1.69</b>	Equity Market Neutral <b>6.16</b>	Long/Short Equity -5.77	Managed Futures -2.78	Fixed Income Arbitrage 3.44
	Currency -7.03	Commodity -24.66	Equity Market Neutral -4.58	Commodity 1.70	Commodity -11.25	Currency 5.20	Commodity -3.12	Fixed Income Arbitrage 5.22	Event Driven -6.80	Global Macro -5.19	Convertible Arbitrage 1.30
↓ Lower	Commodity <b>-17.01</b>	MLP <b>-32.59</b>	Managed Futures -6.84	MLP -6.52	MLP -12.42	Equity Market Neutral <b>1.58</b>	MLP -28.69	Currency -3.09	Currency -7.14	Commodity -7.91	Currency -1.76

Past performance is no guarantee of future results. It is not possible to invest directly in an index. Source: Morningstar as of 4/30/24. \*Data is on a 1-month lag. Data provided is for informational use only. Alternative investments often are speculative and include a high degree of risk. See end of report for important additional information. Global Macro represented by Credit Suisse Global Macro Index. MLP represented by Alerian MLP Index. Event Driven represented by Credit Suisse Event Driven Index. Multi-Strategy represented by Credit Suisse Multi-Strategy Index. Long/Short Equity Index. Convertible Arbitrage represented by Credit Suisse Convertible Arbitrage Index. Currency represented by J.P. Morgan EMLI+ Index. Equity Market Neutral represented by Credit Suisse Equity Market Neutral Index. Fixed Income Arbitrage represented by Credit Suisse Fixed Income Arbitrage Index. Commodity represented by Bloomberg Commodity Index.

### **TRANSITION**

# Major Asset Classes Correlation Table

	S&P 500	International	Emerging Markets	Small Cap	U.S. Aggregate	Municipal	High Yield	Bank Loan	Commodities
S&P 500	1.00	0.87	0.69	0.87	0.37	0.38	0.80	0.60	0.41
International	0.90	1.00	0.80	0.78	0.40	0.45	0.81	0.62	0.46
Emerging Markets	0.72	0.81	1.00	0.64	0.38	0.42	0.71	0.58	0.50
Small Cap	0.88	0.86	0.74	1.00	0.28	0.30	0.77	0.64	0.40
U.S. Aggregate	0.53	0.55	0.50	0.43	1.00	0.85	0.48	0.16	-0.07
Municipal	0.55	0.62	0.58	0.49	0.85	1.00	0.54	0.28	0.02
High Yield	0.83	0.83	0.72	0.84	0.58	0.68	1.00	0.80	0.52
Bank Loan	0.61	0.62	0.61	0.68	0.21	0.37	0.81	1.00	0.51
Commodities	0.43	0.49	0.49	0.44	-0.03	0.09	0.50	0.50	1.00
	5 Years ended M	May 31, 2024	10 Years ended Ma	ay 31, 2024					

### Past performance is no guarantee of future results.

It is not possible to invest directly in an index. Source: Morningstar as of 5/31/24. The table above shows the return correlation between various asset classes (represented by market indices as defined in this disclosure) over the past five and ten years. Data provided is for informational use only. See end of report for important additional information. S&P 500 is represented by the S&P 500 Index. International is represented by MSCI EAFE Index. Emerging Markets is represented by MSCI Emerging Markets Index. Small-Cap is represented by Russell 2000 Index. US Aggregate is represented by the Bloomberg Barclays Capital US Aggregate Bond Index. Municipal is represented by Bloomberg Barclays Municipal Bond Index. High Yield is represented by ICE BofA US High Yield Index. Bank Loan is represented by Morningstar LSTA U.S. Leveraged Loan Index. Commodities is represented by Bloomberg Commodity Index.

### **TRANSITION**

# Fund and ETF Flows by Category

**Top 10 Open-End Mutual Fund Categories by Monthly Flows (\$MM)** 

	1 Mo.	3 Mo.	12 Mo.
Intermediate Core Bond	5,998	32,956	87,640
Multisector Bond	3,500	11,746	25,819
Intermediate Core-Plus Bond	1,133	13,644	35,340
Bank Loan	920	1,222	-5,657
Nontraditional Bond	851	2,206	742
Muni National Interm	751	2,888	5,013
Ultrashort Bond	727	-570	-10,252
Emerging Markets Bond	578	953	-3,108
Equity Market Neutral	443	748	911
Options Trading	395	-41	92

**Bottom 10 Open-End Mutual Fund Categories by Monthly Flows (\$MM)** 

	1 Mo.	3 Mo.	12 Mo.
Mid-Cap Value	-2,162	-5,847	-21,369
High Yield Bond	-2,162	1,904	4,104
Mid-Cap Growth	-2,477	-6,326	-23,249
Small Growth	-2,696	-3,666	-13,536
Moderate Allocation	-2,733	-6,472	-30,755
Foreign Large Blend	-2,960	-3,048	6,973
Global Allocation	-3,437	-6,830	-20,080
Large Value	-5,334	-13,272	-75,160
Large Blend	-7,455	-15,399	-84,625
Large Growth	-13,521	-33,762	-105,525

Top 10 Exchange-Traded Fund Categories by Monthly Flows (\$MM)

	1 Mo.	3 Mo.	12 Mo.
Ultrashort Bond	7,855	11,252	30,132
Large Blend	7,453	49,061	261,578
Foreign Large Blend	5,011	16,923	51,105
Large Growth	4,417	19,750	63,170
Intermediate Core Bond	4,409	12,934	52,425
Mid-Cap Blend	3,205	7,853	17,039
Intermediate Government	2,672	11,459	25,557
Intermediate Core-Plus Bond	2,379	7,028	20,684
Derivative Income	2,303	7,002	25,569
Options Trading	1,631	3,715	14,899

## Bottom 10 Exchange-Traded Fund Categories by Monthly Flows (\$MM)

	1 Mo.	3 Mo.	12 Mo.
TradingInverse Equity	-683	489	-765
Real Estate	-871	223	2,503
Equity Precious Metals	-1,041	-458	-388
Consumer Defensive	-1,100	-1,821	-7,224
Diversified Emerging Mkts	-1,524	1,396	8,503
Small Blend	-1,917	1,767	21,123
Short Government	-2,138	-6,814	-8,134
Health	-2,162	-2,392	-8,949
High Yield Bond	-2,658	-2,860	7,869
Corporate Bond	-3,290	-2,441	9,369

Source: Morningstar as of 4/30/24. Flow data is on a one month lag. Data provided is for informational use only. See end of report for important additional information.

### **TRANSITION**

# Major Asset Class Return Analysis (%)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD 2024
Higher	S&P 500 <b>13.69</b>	Municipal <b>3.30</b>	Small-Cap <b>21.31</b>	Emerging Markets <b>37.28</b>	Municipal <b>1.28</b>	S&P 500 <b>31.49</b>	Small-Cap <b>19.96</b>	S&P 500 <b>28.71</b>	Commodities 16.09	S&P 500 <b>26.29</b>	S&P 500 <b>11.30</b>
	Municipal <b>9.05</b>	S&P 500 <b>1.38</b>	High Yield <b>17.49</b>	International <b>25.03</b>	Bank Loan <b>0.44</b>	Small-Cap <b>25.52</b>	S&P 500 <b>18.40</b>	Commodities 27.11	Bank Loan <b>-0.77</b>	International 18.24	International 7.07
	US Agg <b>5.97</b>	US Agg <b>0.55</b>	S&P 500 <b>11.96</b>	S&P 500 <b>21.83</b>	US Agg <b>0.01</b>	International 22.01	Emerging Markets 18.31	Small-Cap <b>14.82</b>	Municipal -8.53	Small-Cap <b>16.93</b>	Commodities 6.79
	Small-Cap 4.89	Bank Loan -0.69	Commodities 11.77	Small-Cap <b>14.65</b>	High Yield - <b>2.26</b>	Asset Allocation 18.70	Asset Allocation 11.95	Asset Allocation 11.43	High Yield -11.22	Asset Allocation 14.09	Bank Loan 4.04
	Asset Allocation 4.28	International -0.81	Emerging Markets 11.19	Asset Allocation 14.02	S&P 500 -4.38	Emerging Markets 18.42	International 7.82	International 11.26	US Agg <b>-13.01</b>	High Yield 13.46	Emerging Markets 3.41
	High Yield 2.50	Asset Allocation -2.03	Bank Loan <b>10.16</b>	High Yield <b>7.48</b>	Asset Allocation -5.40	High Yield <b>14.41</b>	US Agg <b>7.51</b>	High Yield <b>5.36</b>	Asset Allocation -13.04	Bank Loan <b>13.32</b>	Small-Cap <b>2.68</b>
	Bank Loan 1.60	Small-Cap -4.41	Asset Allocation 8.61	Municipal <b>5.45</b>	Small-Cap <b>-11.01</b>	US Agg <b>8.72</b>	High Yield <b>6.17</b>	Bank Loan <b>5.20</b>	International -14.45	Emerging Markets 9.83	High Yield 1.63
	Emerging Markets -2.19	High Yield -4.64	US Agg <b>2.65</b>	Bank Loan <b>4.12</b>	Commodities -11.25	Bank Loan <b>8.64</b>	Municipal 5.21	Municipal 1.52	S&P 500 - <b>18.11</b>	Municipal <b>6.40</b>	Asset Allocation 1.44
	International -4.90	Emerging Markets -14.92	International 1.00	US Agg <b>3.54</b>	International -13.79	Commodities 7.69	Bank Loan <b>3.12</b>	US Agg <b>-1.54</b>	Emerging Markets -20.09	US Agg <b>5.53</b>	US Agg <b>-1.64</b>
Lower	Commodities -17.01	Commodities -24.66	Municipal <b>0.25</b>	Commodities 1.70	Emerging Markets -14.57	Municipal 7.54	Commodities -3.12	Emerging Markets -2.54	Small-Cap <b>-20.44</b>	Commodities -7.91	Municipal -1.91

Past performance is no guarantee of future results. It is not possible to invest directly in an index. Source: Morningstar as of 5/31/24. Data provided is for informational use only. Investing involves risks including the possible loss of principal. Investors should carefully review the risks of each asset class prior to investing. See end of report for important additional information. S&P 500 represented by the S&P 500 Index. International represented by MSCI EAFE Index. Emerging Markets represented by MSCI Emerging Markets Index. Small-Cap represented by Russell 2000 Index. US Aggregate represented by the Bloomberg Capital US Aggregate Bond Index. Municipal represented by Bloomberg Municipal Bond Index. High Yield represented by ICE BofA US High Yield Index. Bank Loan represented by Morningstar LSTA U.S. Leveraged Loan Index. Commodity represented by Bloomberg Capital US Aggregate Bond Index, 5% in the Bloomberg Capital US Aggregate Bond Index, 5% in the Bloomberg Municipal Bond Index, 5% in the Bloomberg US Corporate High Yield Index, 5% in the Morningstar LSTA U.S. Leveraged Loan Index, and 5% in the Bloomberg Commodity Index.

# Capital Markets Group

The Capital Markets Group provides top-down, macro analysis of equity, fixed income and alternative assets, designed to help clients capitalize on evolving economic dynamics and market dislocations globally. The Capital Markets Group supports the MSIM Portfolio Solutions Group, which builds custom multi-asset investment solutions across a range of broadly-diversified to hyper-focused portfolios.



JIM CARON
Chief Investment
Officer
Managing Director



EWA TUREK
SEMMELROTH
Executive Director



ERIC ZHANG

Executive Director



SCHUYLER HOOPER Executive Director



GREG WATERMAN Vice President



UMAR MALIK
Vice President



FLORIAN REGNERY Vice President



CHRIS CHIA
Vice President

# **Asset Allocation Committee**

The Asset Allocation Committee is an independent group of senior investment professionals across various disciplines within MSIM and Eaton Vance. The Capital Markets Group presents multisector research and investment ideas to the Committee, who is responsible for vetting and challenging these ideas to insure they meet their rigorous standards and can then be included in representative asset allocation recommendations.

#### **MARK BAVOSO**

Senior Portfolio Manager, Global Multi-Asset team

#### **JUSTIN BOURGETTE**

Portfolio Manager and Head of Investment Strategy for the High Yield team

#### **CRAIG BRANDON**

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#### **CHRISTOPHER REMINGTON**

Managing Director, Product & Portfolio Strategy

#### **ANDREW SLIMMON**

Senior Portfolio Manager and Head of Applied Equity Advisors

#### STEVEN TURNER

Head of Investment Selection, Portfolio Solutions Group

# Glossary of Terms

### **Index Definitions**

**Bloomberg Commodity Index** is a broadly diversified index tracking futures contracts on physical commodities.

Bloomberg Euro-Aggregate Corporates Index consists of bonds issued in the euro or the legacy currencies of the 16 sovereign countries participating in the European Monetary Union (EMU)

**Bloomberg Global Aggregate Ex-USD Index** is a broad-based measure of global Investment Grade fixed-rate debt investments, excluding USD-denominated debt.

**Bloomberg High Yield Municipal Bond Index** is an unmanaged index of non-Investment Grade Municipal bonds traded in the U.S.

**Bloomberg Municipal Bond Index** is an unmanaged index of Municipal bonds traded in the U.S.

Bloomberg Pan-European High Yield Index covers the universe of fixedrate, sub-investment-grade debt denominated in euros or other European currencies (except Swiss francs).

**Bloomberg Taxable Municipal Bond Index** is an unmanaged index of Taxable Municipal bonds traded in the U.S.

**Bloomberg U.S. Agency Index** measures agency securities issued by U.S government agencies, quasi-federal corporations, and corporate or foreign debt guaranteed by the U.S. government.

**Bloomberg U.S. Aggregate Index** is an unmanaged index of domestic investment-grade bonds, including corporate, government and mortgage-backed securities.

Bloomberg U.S. Asset Backed Securities (ABS) Index measures ABS with the following collateral type: credit and charge card, auto, and utility loans.

**Bloomberg U.S. CMBS Index** measures the market of conduit and fusion CMBS deals with a minimum current deal size of \$300mn.

**Bloomberg U.S. Corporate Investment Grade Index** is an unmanaged index that measures the performance of investment-grade corporate securities within the Barclays U.S. Aggregate Index.

Bloomberg U.S. Mortgage Backed Securities (MBS) Index measures agency mortgage-backed pass-through securities issued by GNMA, FNMA, and FHLMC.

**Bloomberg U.S. Treasury Index** measures public debt instruments issued by the U.S. Treasury.

**CBOE Volatility Index (VIX)** tracks the implied volatilities of a wide range of S&P 500 Index options.

**CBOE S&P 500 BuyWrite Index** measures the performance of a hypothetical buy-write strategy on the S&P 500 Index.

ICE BofA US Inflation-Linked Treasury Index tracks the performance of USD denominated inflation linked sovereign debt publicly issued by the US government.

ICE BofA Fixed Rate Preferred Securities Index is an unmanaged index of fixed-rate, preferred securities issued in the U.S.

**ICE BofA European Union Government Bond Index** tracks the performance of sovereign debt publicly issued by countries that are members of the European Union.

ICE BofA U.S. High Yield Index is an unmanaged index of below-investment grade U.S. corporate bonds.

ICE BofA Developed Markets High Yield Ex-Subordinated Financial Index (Hedged) is an unmanaged index of global developed market below investment grade corporate bonds, USD hedged.

FTSE 100 Index is an unmanaged market-capitalization weighted index representing the performance of the 100 largest UK listed blue chip companies, which pass screening for size and liquidity.

FTSE All Small Index consists of all the companies in the FTSE SmallCap and FTSE Fleddling indices.

FTSE World Government Bond Index (WGBI) measures the performance of fixed-rate, local currency, investment-grade sovereign bonds.

J.P. Morgan Corporate Emerging Markets Bond Index (CEMBI) Broad Diversified is an unmanaged index of USD-denominated emerging market corporate bonds.

**J.P. Morgan Emerging Markets Bond Index (EMBI) Global Diversified** is an unmanaged index of USD-denominated bonds with maturities of more than one year issued by emerging markets governments.

J.P. Morgan Government Bond Index-Emerging Markets (GBI-EM) Global Diversified is an unmanaged index of local-currency bonds with maturities of more than one year issued by emerging market governments.

Morgan Stanley Capital International (MSCI) Emerging Markets Index is an unmanaged index of emerging markets common stocks

MSCI EMU Index (European Economic and Monetary Union) captures large and mid cap representation across the 10 Developed Markets countries in the EMU. With 229 constituents, the index covers approximately 85% of the free float-adjusted market capitalization of the EMU.

Morgan Stanley Capital International All Country Asia Pacific Index (MSCI AC Asia Pac) is an unmanaged total return, capitalization-weighted index that measures the performance of stock markets in 15 Pacific region countries, including Australia, China, Hong Kong, India, Indonesia, Japan, Korea, Malaysia, New Zealand, Pakistan, the Philippines, Singapore, Sri Lanka, Taiwan and Thailand.

Morgan Stanley Capital International (MSCI) Japan Index is an unmanaged index designed to measure the performance of the large and mid cap segments of the Japan market.

Morgan Stanley Capital International (MSCI) World Index is an unmanaged index of equity securities in the developed markets.

Morgan Stanley Capital International (MSCI) World ex USA Small Cap Index is an unmanaged index of small-cap equity securities in the developed markets, excluding the United States.

Morgan Stanley Capital International All Country World (MSCI AC World) Index is an unmanaged free float-adjusted market-capitalization-weighted index designed to measure the equity market performance of developed and emerging markets.

Morgan Stanley Capital International Europe (MSCI Europe) Index is an unmanaged free float-adjusted market-capitalization-weighted index designed to measure the equity market performance of the developed markets in Europe.

# Glossary of Terms and About Risk

## Index Definitions (cont.)

Morgan Stanley Capital International Europe, Australasia, Far East (MSCI EAFE) Index is an unmanaged index of equities in the developed markets, excluding the U.S. and Canada.

MSCI USA Index is designed to measure the performance of the large and mid cap segments of the US market. With 625 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in the US.

Morningstar LSTA U.S. Leveraged Loan Index is an unmanaged index of the institutional leveraged loan market. Prior to August 29, 2022 the index name was S&P/LSTA Leveraged Loan Index.

**Nikkei 225 Stock Average Index** is unmanaged price-weighted index of 225 top-rated Japanese companies listed in the First Section of the Tokyo Stock Exchange.

Russell 1000 Index is an unmanaged index of 1,000 U.S. large-cap stocks.

Russell 1000 Growth Index is an unmanaged index of 1,000 U.S. large-cap growth stocks.

Russell 1000 Value Index is an unmanaged index of 1,000 U.S. large-cap value stocks.

Russell 2000 Index is an unmanaged index of 2,000 U.S. small-cap stocks.

Russell 2500 Index is an unmanaged index of approximately 2,500 U.S. small- and mid-cap U.S. stocks.

Russell Midcap Index is an unmanaged index of U.S. mid-cap stocks.

**Standard & Poor's 500 Index** is an unmanaged index of large-cap stocks commonly used as a measure of U.S. stock market performance.

**STOXX Europe 600 Index** is a fixed component number index designed to provide a broad yet liquid representation of large, mid and small capitalization companies in Europe.

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Unless otherwise stated, index returns do not reflect the effect of any applicable sales charges, commissions, expenses, taxes or leverage, as applicable. It is not possible to invest directly in an index. Data provided is for informational use only. Past performance is no guarantee of future results. See end of report for important additional information.

## **Terms**

**Municipal-to-Treasury Yield Ratios** are relative value indicators that measure the richness or cheapness of Municipal bond yields to comparable maturity Treasury bond yields.

Yield to Worst is a measure which reflects the lowest potential yield earned on a bond without the issuer defaulting. The yield to worst is calculated by making worst-case scenario assumptions by calculating the returns that would be received if provisions, including prepayment, call or sinking fund, are used by the issuer.

### **About Risk**

Bank Loans - There can be no assurance that the liquidation of collateral securing an investment will satisfy the issuer's obligation in the event of non-payment or that collateral can be readily liquidated. The ability to realize the benefits of any collateral may be delayed or limited. Commodities - The value of commodities investments will generally be affected by overall market movements and factors specific to a particular industry or commodity including weather, embargoes, tariffs, or health, political, international and regulatory developments. Credit - Investments in income securities may be affected by changes in the creditworthiness of the issuer and are subject to the risk of non-payment of principal and interest. The value of income securities also may decline because of real or perceived concerns about the issuer's ability to make principal and interest payments. **Duration** – Securities with longer durations tend to be more sensitive to interest rate changes than securities with shorter durations. Equity - Equity investment values are sensitive to stock market volatility. Foreign - Investments in foreign instruments or currencies can involve greater risk and volatility than U.S. investments because of adverse market, economic, political, regulatory, geopolitical, or other conditions. In emerging countries, these risks may be more significant. Gov't Agency – While certain U.S. Governmentsponsored agencies may be chartered or sponsored by acts of Congress, their securities are neither issued nor guaranteed by the U.S. Treasury. Income Market – An imbalance in supply and demand in the income market may result in valuation uncertainties and greater volatility, less liquidity, widening credit spreads and a lack of price transparency in the market. There generally is limited public information about Municipal issuers. Inflation-Linked - Interest payments on inflation-linked securities may vary widely and will fluctuate as principal and interest are adjusted for inflation. Investments in inflation-linked securities may lose value in the event that the actual rate of inflation is different than the rate of the inflation index. Interest Rate - As interest rates rise, the value of certain income investments is likely to decline. The London Interbank Offered Rate or LIBOR, is used throughout global banking and financial industries to determine interest rates for a variety of financial instruments (such as debt instruments and derivatives) and borrowing arrangements. The ICE Benchmark Administration Limited, the administrator of LIBOR, is expected to cease publishing certain LIBOR settings on December 31, 2021, and the remaining LIBOR settings on June 30, 2023. The transition process may involve, among other things, increased volatility or illiquidity in markets for instruments that currently rely on LIBOR, such as floating-rate debt obligations. Lower-Rated - Investments rated below Investment Grade (typically referred to as "iunk") are generally subject to greater price volatility and illiquidity than higher rated investments. Maturity - Longer-term bonds typically are more sensitive to interest rate changes than shorter-term bonds. **Preferred** Stocks - When interest rates rise, the value of preferred stocks will generally decline. Prepayment - MBS -Mortgage-backed securities are subject to prepayment risk. Prepayment - Bank Loan - Bank Loans are subject to prepayment risk. Real Estate - Changes in real estate values or economic downturns can have a significant negative effect on issuers in the real estate industry, including REITs.

#### **Risk Considerations**

Diversification does not eliminate the risk of loss.

In general, equity securities' values also fluctuate in response to activities specific to a company. Investments in foreign markets entail special risks such as currency, political, economic, and market risks. The risks of investing in emerging market countries are greater than risks associated with investments in foreign developed countries. Fixed income securities are subject to the ability of an issuer to make timely principal and interest payments (credit risk), changes in interest rates (interest-rate risk), the creditworthiness of the issuer and general market liquidity (market risk). In a rising interest-rate environment, bond prices may fall and may result in periods of volatility and increased portfolio redemptions. In a declining interest-rate environment, the portfolio may generate less income. Longer-term securities may be more sensitive to interest rate changes. Alternative investments are speculative, involve a high degree of risk, are highly illiquid, typically have higher fees than other investments, and may engage in the use of leverage, short sales, and derivatives, which may increase the risk of investment loss. These investments are designed for investors who understand and are willing to accept these risks. Performance may be volatile, and an investor could lose all or a substantial portion of its investment.

There is no guarantee that any investment strategy will work under all market conditions, and each investor should evaluate their ability to invest for the long-term, especially during periods of downturn in the market.

A separately managed account may not be appropriate for all investors. Separate accounts managed according to the Strategy include a number of securities and will not necessarily track the performance of any index. Please consider the investment objectives, risks and fees of the Strategy carefully before investing. A minimum asset level is required.

For important information about the investment managers, please refer to Form ADV Part 2.

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