

INVESTMENT MANAGEMENT





April 2024

Previously known as the Monthly Market Monitor.

TOP IDEAS	The <b>BEAT</b> , previously known as the Monthly Market Monitor, provides connectivity between changing market events and implications for investor portfolios.
2	Spanning <b>B</b> onds, Equities, Alternatives and Transition*, this monthly review provides timely information across a broad array of markets and investment topics.
BONDS 15	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.
EQUITIES <b>27</b>	We believe The <b>BEAT</b> is a critical desk reference that enables more informed discussion and understanding of financial markets.
ALTERNATIVES <b>38</b>	
TRANSITION <b>44</b>	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.

### The Capital Markets Group – Our Top 5 Ideas

### **Downgrading Global Equities to Neutral from Overweight**

We are taking profits and reducing risk from our prior OW

**position.** To be clear, we are not turning negative on global equities, instead are looking to monetize the recent run-up in equity prices and move back to neutral. This also means upgrading Underweights to Neutral. Our thinking is that 1Q24 brought many surprise factors that may not be repeated in 2Q24, such as stronger than expected momentum from prior quarter GDP, stronger earnings and greater prospects for fiscal stimulus in 2024.

#### Downgrading U.S. Equity to Neutral / Upgrading Europe and China from an Underweight

**Downgrading OWs while upgrading UWs.** The path to Neutral means reducing the highest weighted global equity allocation, namely U.S. exposure, and upgrading allocations to Europe and China from UW to Neutral. The global economy is now in a more stable position relative to prior expectations which may benefit China and, in turn, Europe.

#### Holding our OW in Japanese Equities; \$/¥ Neutral Despite Bank of Japan Rate Hikes

A change in BoJ policy rates was well anticipated. We do not believe the hikes in BoJ policy rates marks a surprise factor to the market that rises to the level of changing the trend in Japanese equities or currency. The trends in place exist for greater structural reasons that are unlikely to be negated by a well-anticipated rate hike. This is not to say there can't be a correction, just that it doesn't change the trend in our view.

### The Demise of Bond Yields is Greatly Exaggerated

**Bond yields are likely to remain in a range.** At the start of the year bond yields were already priced for aggressive rate cuts by central banks. As it is turning out, inflation has proven stickier and economic demand stronger, which is delaying aggressive cuts. But it's very unlikely the economy accelerates to the point where rate cuts are taken off the table. The result is that we expect a range-bound market in which bonds offer carry — and little else.

#### Credit: We Continue to Hold a Low Quality Overweight Relative to High Quality

**Earning carry amidst a soft landing.** Consistent with our soft-landing view, and related expectations for default rates to remain contained, we prefer owning lower quality, or High Yield credit, over Investment Grade. Our rationale is that IG spreads are tight and provide more duration exposure than carry income. We prefer owning duration in higher-quality government bonds, set against HY bonds in our barbell approach. This can be weighted such that the credit quality of the pair is still IG rated, but carries a higher yield and less duration exposure.

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### Key Themes for April



# Fed Rate Cuts: The Pace Is in Question, but the Path Is Almost Assured

While there is uncertainty as to whether cuts will start in June (or later), the market is confident that the path for Fed funds rates is downward from this point forward. This keeps the Fed's inflation fighting credibility intact and may be the primary reason as to why risky assets have remained buoyant, despite rates staying "higher for longer."



# Inflation Is Priced To Be Contained Over the Long Term

The market is pricing inflation to remain contained over the long term, based on 5-year/5-year (5y5y) forward inflation swap pricing for both the U.S. and Europe. This is why the market is comfortable pricing lower policy rates in the future, keeping longer-dated bond yields low – another support for risky assets. If this changes, then higher rates represent a risk to asset prices.



### Labor Markets Are Cooling, Not Collapsing

Perhaps the key element to a "soft-landing" view is that labor markets cool enough to slow wage inflation, which in turn should lower price inflation. But simultaneously labor must remain strong enough to avoid a collapse that would trigger a sharp decline in consumption and GDP, leading to a risk of recession. We are closely monitoring how this ultimately plays out, as it is an essential ingredient for keeping earnings growth rates intact and supporting equity prices. The interplay between wages, unemployment and consumption is a key risk indicator on our radar screen



# The Land of the Rising Rates: Changes to Bank of Japan Policy

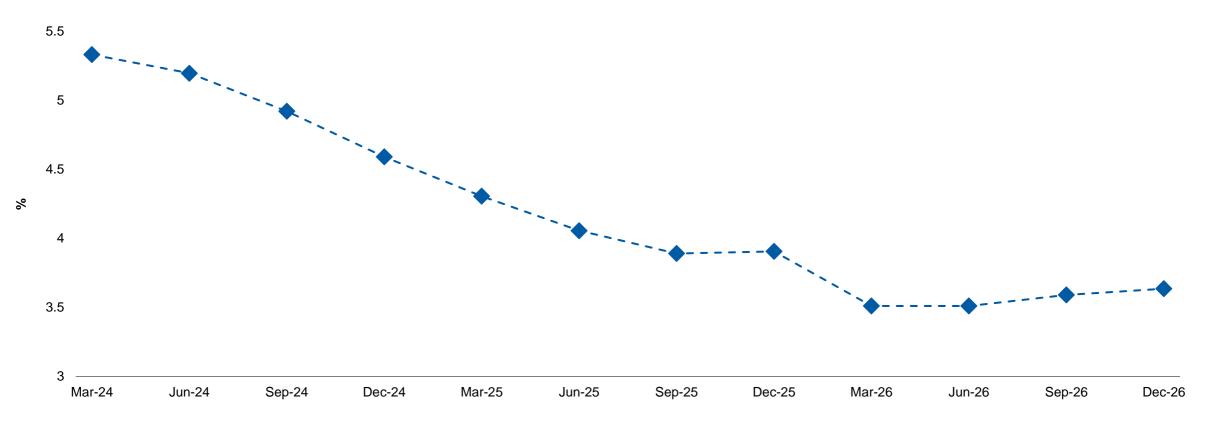
Wage-Price inflation is taking root in Japan as evidenced by the recent "Shunto," the annual pay negotiations led by united Japanese labor unions, which ended in a larger wage increase, reflected in the rise of inflation. The BoJ ended its Negative Interest Rate Policy of -10bps to 0bps and increased to a new range of 0bps to +10bps. Symbolically this is seismic, as it illustrates that one of the main drivers of global disinflation, and anchors to low interest rates, has now ceased to exist – potentially a risk factor to watch for in April.

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The Market Has Been Pricing a Downward Path for Fed Funds, Despite Volatility in Expectations on the Timing of the First Cut Fed Fund Futures



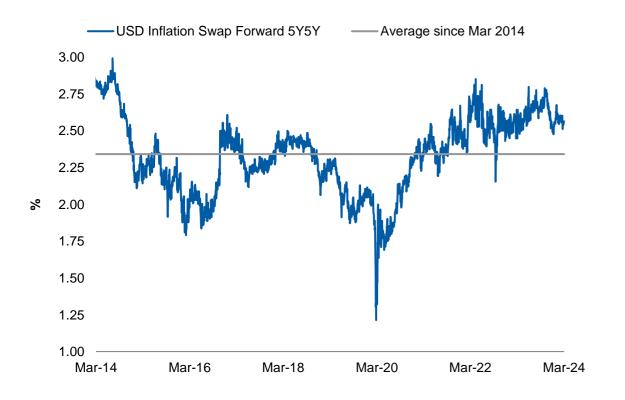
Source: Bloomberg, MSIM. Data as of March 21, 2024. The views and opinions expressed are those of the Capital Markets Group at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass.

# Inflation Is Priced To Be Contained Over the Long Term

Longer-term inflation expectations in the U.S. have remained stable and have fallen recently in Europe. Still, investors are pricing inflation to be above target in both regions, likely why the Fed and ECB may be slow to adjust policy rates lower. On a positive note, the risk of runaway inflation looks low, supporting stable long-end bond yields and risk assets.

### U.S. Inflation Is Priced Above Target and its Long-term Average

USD Inflation Swap Forward 5Y5Y



### **Eurozone Inflation Is Priced To Be Much Higher vs. Pre-Covid** EUR Inflation Swap Forward 5Y5Y



Source: Bloomberg, Macrobond, MSIM. Data as of March 18, 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.

### Labor Markets Are Cooling, not Collapsing

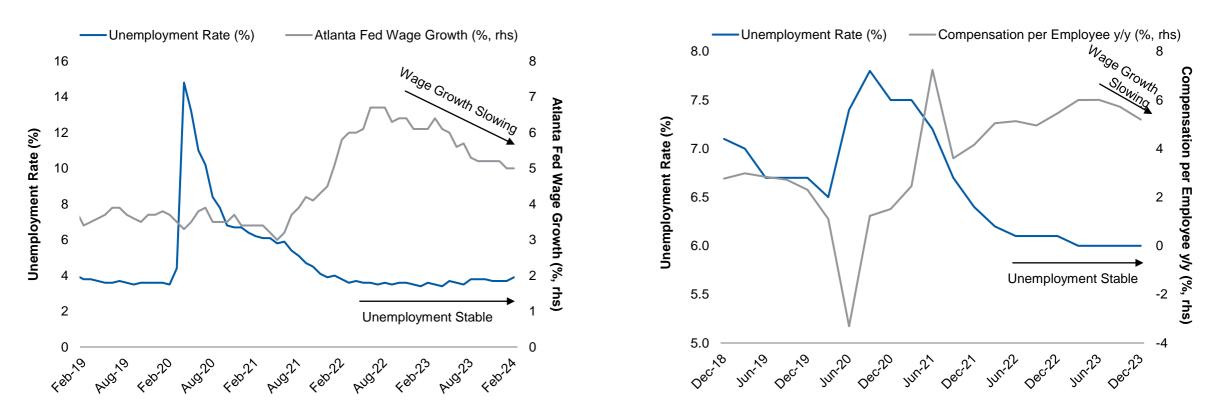
Unemployment rates in the U.S. and EU have stopped declining and have even risen slightly in the U.S. Wage growth remains above pre-COVID levels but has fallen from its peak and appears poised to slow further. This level of wage growth should help to support consumption while not stoking an inflationary wage-price spiral.

### The U.S. Labor Market Shows Signs of Normalization

Unemployment rate and Atlanta Fed 3m moving avg. wage tracker

### EU Wages Show Decline, Have Lagged U.S.

EU-27 (excluding UK) unemployment and compensation growth



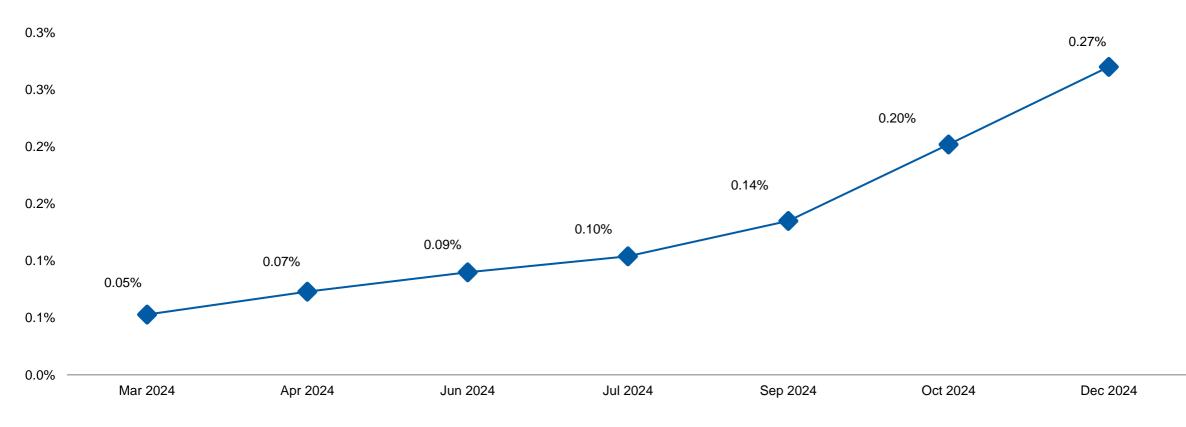
Source: Macrobond, MSIM. Data as of March 20, 2024. The views and opinions expressed are those of the Capital Markets Group at the time of writing/of this presentation and are subject to change at any time due to market, economic, or other conditions, and may not necessarily come to pass. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass.

# The Land of the Rising Rates: Changes to the Bank of Japan Policy

Wage-price inflation is taking root as evidenced by the recent *Shunto* (annual wage negotiations), which showed a larger increase reflecting rising inflation. The BoJ ended its NIRP of -10 to 0bps, adopting a new range of 0 to +10bps. Symbolically this illustrates a main driver of global disinflation, and anchor to low interest rates, now ceases to exist.

### The Market Is Pricing Two More 10 bp Rate Hikes by the End of 2024

BOJ Policy Rate implied by overnight index swaps (OIS)



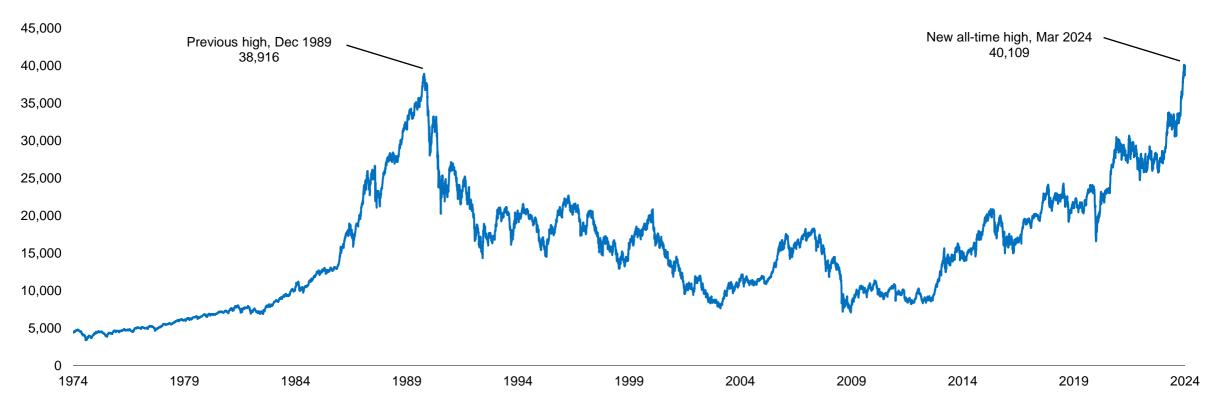
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# Holding OW in Japanese Equities, USD/JPY Neutral Despite BoJ Rate Hikes

Japanese equity outperformance is supported by solid earnings growth, with valuation multiples rerating due to structural shifts, such as Japan's exit from deflation and corporate governance reforms. Limited prospects of significant yen strength continue to be a tailwind, given the backdrop of higher-for-longer Fed rates and restrained BoJ tightening.

### Japan's Nikkei Index Achieved an All-time High, Last Set in 1989

Nikkei 225 Index

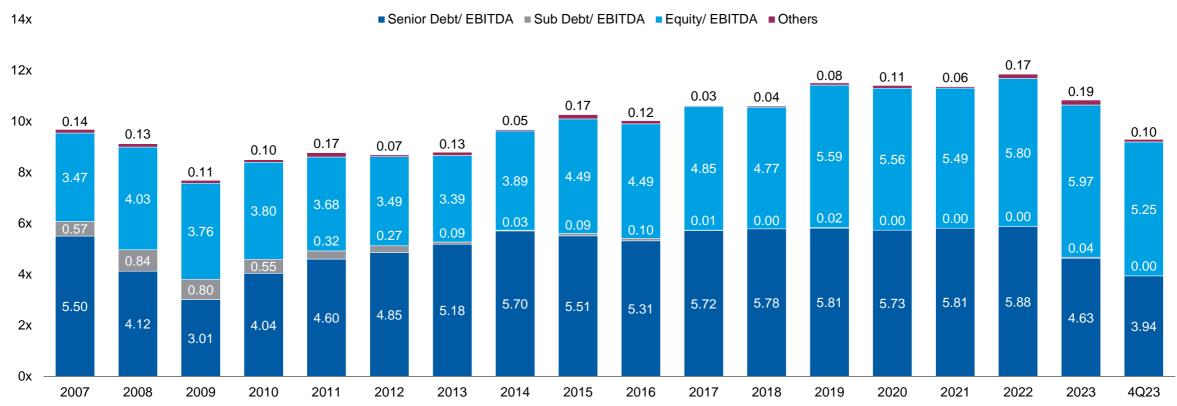


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# Private Equity Shows Signs of Improved Entry Valuations

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 price correction and attractive entry valuations.

### Purchase Price Multiples — All Leveraged Buyouts

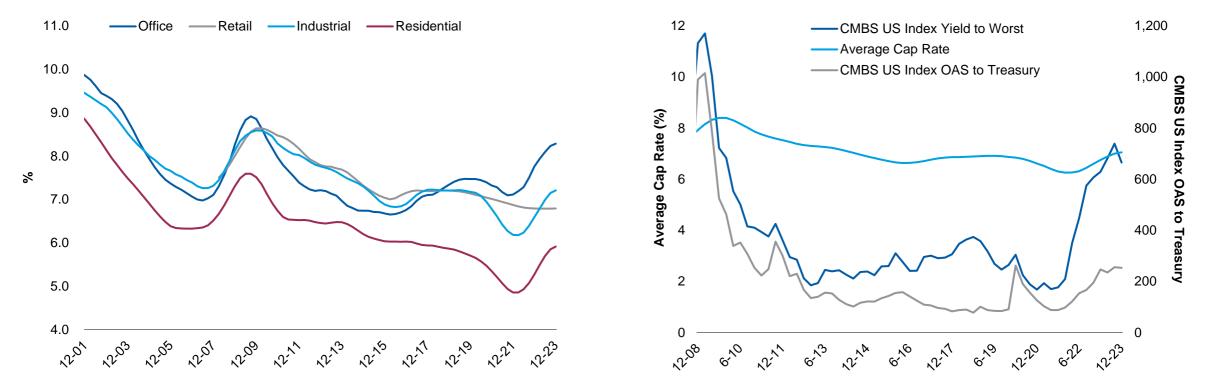


Sources: Pitchbook, Preqin. As of December 2023. This information reflects the views of the Capital Markets Group as of the date hereof and not of any future date and are subject to change without notice in response to changing circumstances and market conditions. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. 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.

# An Emerging Opportunity Set in Commercial Real Estate Equity

Commercial real estate valuations have become more attractive in the face of higher interest rates and elevated 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

Sources: CoStar, Bloomberg. As of December 2023. 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. Not to be construed as an investment or research recommendation. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past** performance is no guarantee of future results. The index performance is provided for illustrative purposes only and is not meant to depict the performance of a specific investment.

### **Capital Markets Investment Framework**

Representative Allocations from the Portfolio Solutions Group



-- High conviction underweight

- Underweight
- + Overweight
- ++ High conviction overweight

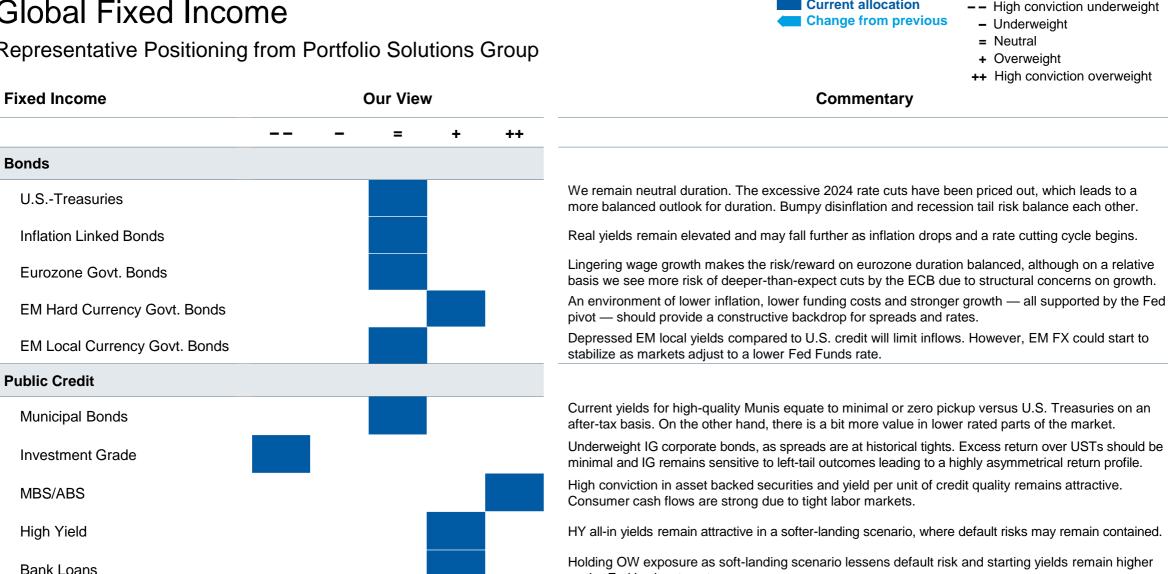
Asset Allocation	Our View	Commentary
	= + ++	
Bonds		Duration may present a rick to fixed income experience instead of a hadro. The reason is that we
Duration		Duration may present a risk to fixed income exposures, instead of a hedge. The reason is that we expect a softer landing scenario and believe that inflation may be sticky and fall slowly. This means that bond duration risks face a potentially slow and shallow Fed rate cut cycle. IG credit has the same challenge, as longer-duration exposures are not offset with materially higher yields than cash.
Credit		Additionally tight spreads create vulnerability in a risk-off event.
Equities		After the strong market rally since Q4 2023 and the materialization of quite a few positive developments, we feel now it is a good time to take some profits and downgrade equities to neutral.
Risk Level		To be clear, we are not turning negative on global equities, but we do see risk and reward are more balanced at this juncture.
Alternatives		While the repricing of private assets in response to higher financing costs continues, substantial progress is now evident, and we have increased confidence in entry prices for private equity and real
Private Markets		estate. We expect fundraising and deployment to recover from lows as M&A rebounds, leading to a broader opportunity to deploy capital. In private credit, interest levels on new loans are trending down to long-term averages, but special situations strategies with flexibility have been able to
Hedge Funds		maintain relatively attractive pricing.
-		Hedge funds have started strong in 2024 and their positioning suggests confidence in the opportunities for skill-based returns.
Commodities		We are neutral on key commodity markets, as undersupply tailwinds are balanced by headwinds related to a slowdown in activity levels.
Transition		Keeping cash at neutral levels. It has the benefits of higher front-end yields as policy rates remain
Cash/Short Duration		sticky, but also has benefits of high quality to reduce risk.

For informational purposes and does not constitute an offer or a recommendation to buy or sell any particular security or to adopt any specific investment strategy. The tactical views expressed above are a broad reflection of our team's views and implementations, expressed for client communication purposes. Individual team allocations may differ. The information herein does not contend to address the financial objectives, situation or specific needs of any individual investor. The signals represent the Portfolio Solutions Group view on each asset class.

Bonds

### **Global Fixed Income**

### Representative Positioning from Portfolio Solutions Group



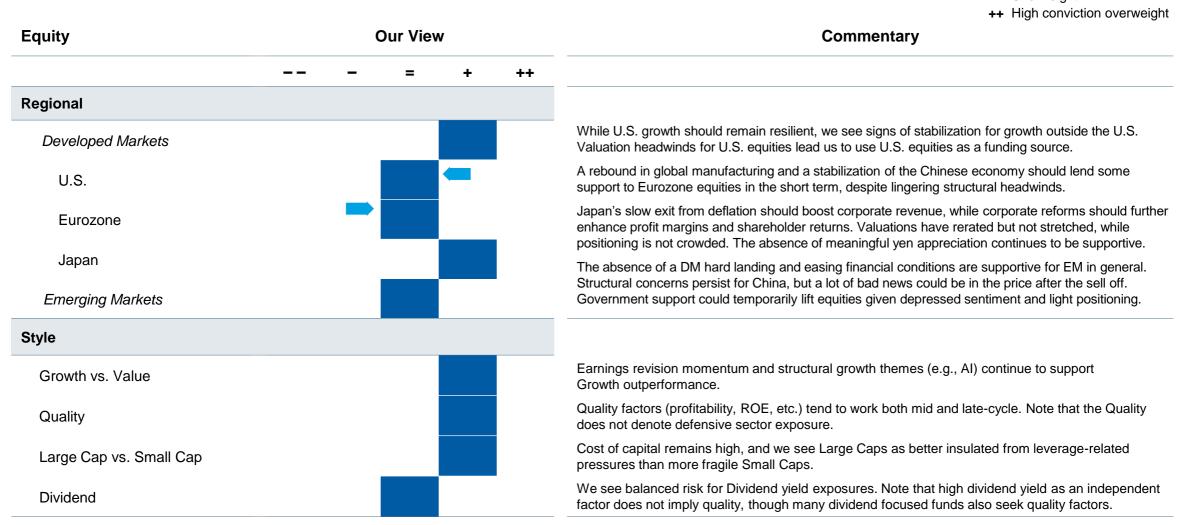
**Current allocation** 

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as the Fed is slow to cut.

# **Global Equity**

Representative Positioning from Portfolio Solutions Group



**Current allocation** 

Change from previous

High conviction underweight

UnderweightNeutral

+ Overweight

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### Alternatives

Representative Positioning from Portfolio Solutions Group

Alternative Assets	New Investments View				
	 -	=	+	++	
Private Markets					
Real Estate					
Infrastructure					
Natural Resources					
Private Equity					
Private Credit					
Liquid Alternatives					
Hedge Funds					
Commodities					



- Highly selective new investments
- Selective new investments
- = Neutral
- + Priority new investments
- ++ High priority new investments

#### Commentary

**Commercial Real Estate** has continued to reprice meaningfully given higher debt costs and elevated supply, leading us to upgrade to neutral. A significant amount of debt maturities this year should drive higher transaction volumes and put additional downward pressure on pricing, leading to attractive entry valuations. Long-term demand tailwinds in key sectors remain. Our view on **Infrastructure** is unchanged, as entry valuations are largely defendable, and the asset class is well-placed to benefit from the growth opportunities associated with the energy transition and digitization. Select markets within **Natural Resources** continue to benefit from strong long-term fundamentals, such as increasing food demand and decreasing arable land (in the case of agriculture investments).

We maintain a neutral indicator for **Private Equity** but have observed a compelling trend lower in transaction valuations and anticipate that this will be reinforced during 2024 as M&A expands. An increase in market activity and deployment could justify an upgrade in weighting. We continue to emphasize the advantage of middle market **Private Equity** where leverage and valuation sensitivities are typically lower.

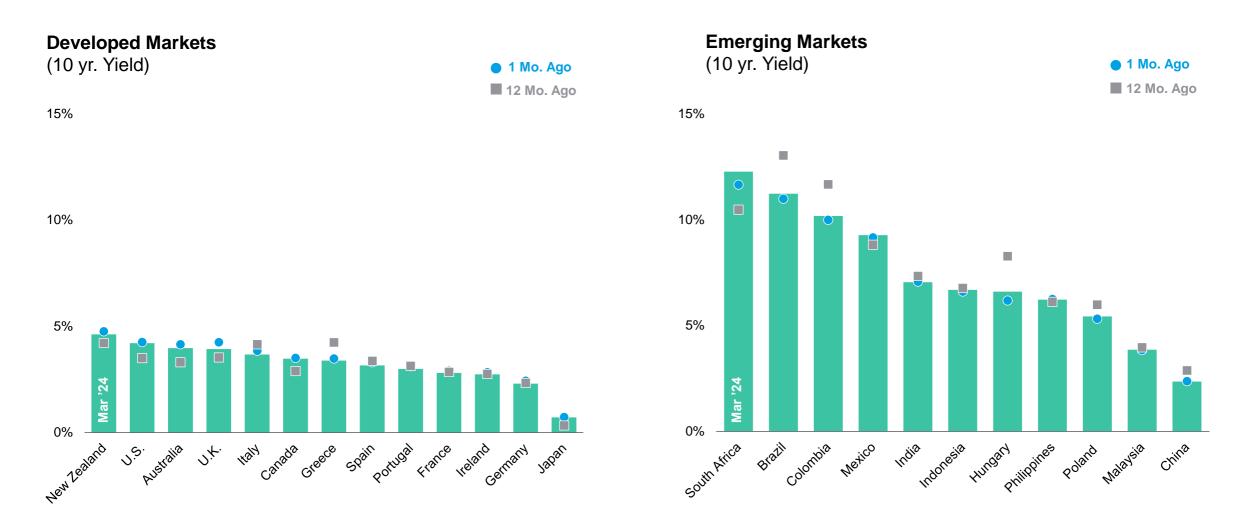
In **Private Credit**, loan pricing, terms and defaults are generally now in-line with long-term averages. As a result, we have revised our view to neutral. However, as corporates continue to adjust to higher interest rate expense, the supply of opportunities for special situations lenders is growing and offers attractive pricing.

In long-short 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 a relatively high conviction in the current opportunities for skill-based returns.

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 price upside 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 3/31/24. Data provided is for informational use only. See end of report for important additional information.

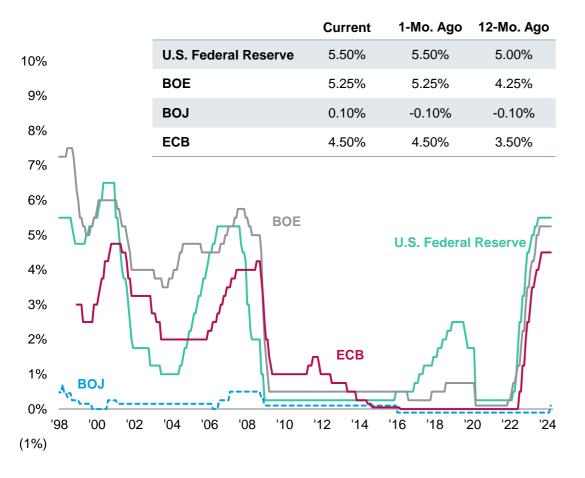
### Key Rates (%)

Security	Current	12-Mo. Ago	Average	Minimum	Maximum
1-Week SIFMA	3.64	3.97	3.43	1.90	4.55
Secured Overnight Financing Rate	5.34	4.84	5.21	4.80	5.40
1-Mo LIBOR	5.44	4.86	5.35	4.86	5.48
3-Mo LIBOR	5.56	5.16	5.56	5.19	5.69
2-Yr Treasury	4.62	4.07	4.64	3.74	5.21
5-Yr Treasury	4.22	3.67	4.14	3.28	4.96
10-Yr Treasury	4.20	3.56	4.09	3.29	4.99
30-Yr Treasury	4.34	3.78	4.24	3.54	5.11
2-Yr Japan	0.18	-0.07	0.03	-0.09	0.20
10-Yr Japan	0.70	0.33	0.62	0.32	0.96
2-Yr German Bund	2.85	2.57	2.89	2.38	3.31
10-Yr German Bund	2.29	2.28	2.45	1.91	2.98
2-Yr UK Gilt	4.14	3.35	4.50	3.35	5.52
10-Yr UK Gilt	3.92	3.45	4.14	3.42	4.74
Bloomberg US Agg	4.85	4.48	4.89	4.20	5.74
Bloomberg Global Agg	3.74	3.56	3.84	3.41	4.42
Bloomberg US Corporate	5.30	5.32	5.52	4.99	6.43
Bloomberg US Long Corporate	5.46	5.44	5.65	5.16	6.60
Bloomberg US Municipal	3.49	3.28	3.62	3.06	4.50
Bloomberg US Long Municipal	4.18	4.21	4.37	4.00	5.18
US High Yield	7.75	8.93	8.44	7.62	9.53
US Loans	9.82	10.26	10.31	9.82	10.80

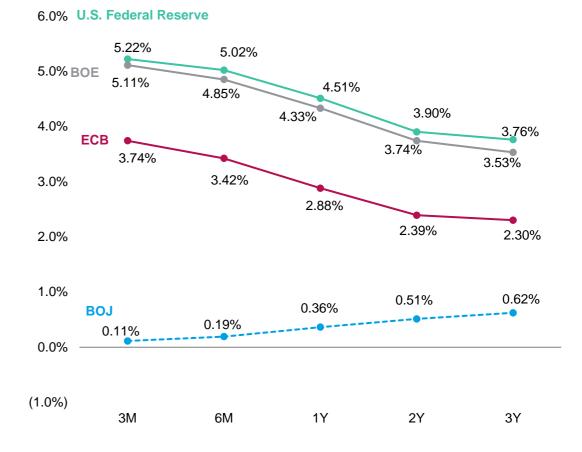
Past performance is no guarantee of future results. It is not possible to invest directly in an index. Source: Bloomberg, Leveraged Commentary & Data (LCD), and Factset as of 3/31/24. Current represents most recent month. Average, minimum, and maximum measure a 12-month period ending most recent month. 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 High Yield Index. 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**

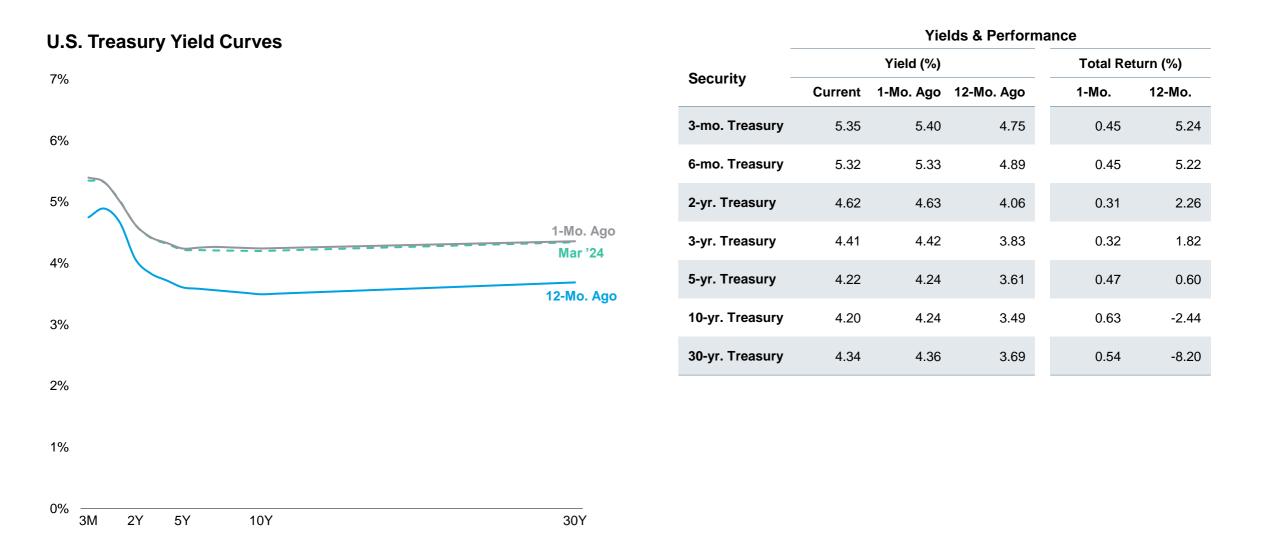


#### **Market Expectations for Future Central Bank Rates**



Source: Bloomberg, Factset as of 3/31/24. 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



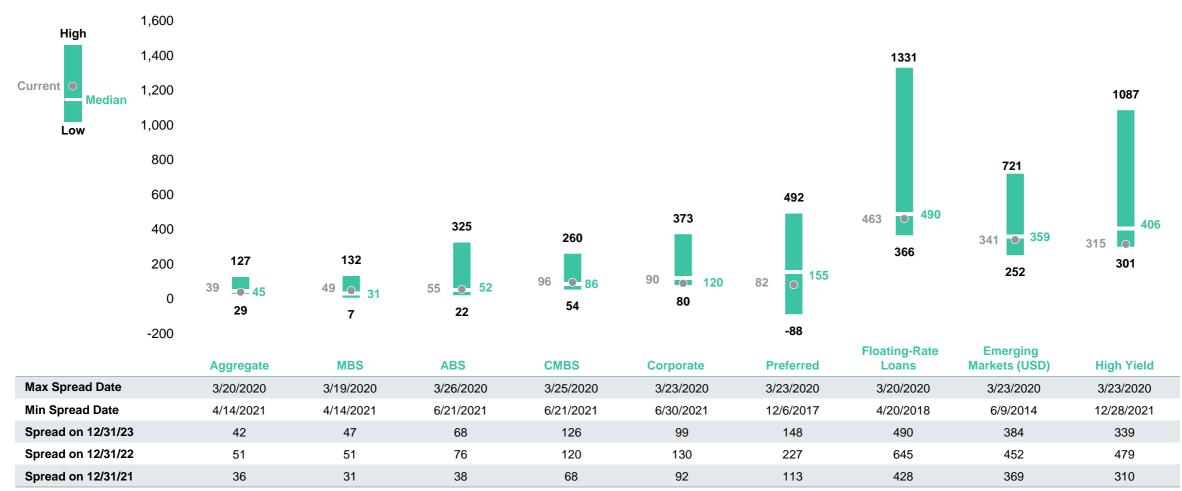
Source: Factset, Morningstar as of 3/31/24. Data provided is for informational use only. Past Performance is not a reliable indicator of future results. See end of report for important additional information.

### **Characteristics and Performance Analysis**

			Avera	ages			Total Returns (%)						
Index	Coupon (%)	Price (\$)	Yield to Worst (%)	Spread (bps)	Maturity (yrs.)	Duration (yrs.)	1-Mo.	3-Мо.	YTD	1Y	3Y	5Y	10Y
U.S. High Grade													
Bloomberg U.S. Aggregate Index	3.20	90.5	4.85	39	8.4	6.2	0.92	-0.78	-0.78	1.70	-2.46	0.36	1.54
U.S. Treasury	2.67	90.3	4.43	-	7.8	6.0	0.64	-0.96	-0.96	0.05	-2.73	-0.08	1.03
U.S. Mortgage Backed Securities	3.12	88.2	5.04	49	7.5	6.1	1.06	-1.04	-1.04	1.39	-2.84	-0.39	1.12
U.S. Asset Backed Securities	4.43	98.5	5.19	55	3.6	2.6	0.49	0.68	0.68	4.32	0.50	1.76	1.82
U.S. Commercial Mortgage Backed Securities	3.18	91.3	5.33	96	4.9	4.3	0.91	0.85	0.85	4.42	-1.41	1.20	2.02
U.S. Corp. Investment Grade	4.13	92.4	5.30	90	10.8	7.0	1.29	-0.40	-0.40	4.43	-1.87	1.52	2.61
Bloomberg Municipal Bond Index	4.54	102.3	3.49	-	13.4	6.1	0.00	-0.39	-0.39	3.13	-0.41	1.59	2.66
Bloomberg Taxable Municipal Bond Index	4.32	93.1	5.01	_	14.4	7.9	1.30	0.10	0.10	3.56	-2.29	1.27	3.36
ICE BofA US Inflation-Linked Treasury Index	0.89	92.5	2.00	-	7.6	5.4	0.71	0.02	0.02	0.16	-0.69	2.41	2.25
ICE BofA Preferred Index (Fixed Rate)	5.23	92.9	5.97	82	-	5.1	0.87	4.52	4.52	11.46	0.54	3.09	4.68
U.S. High Yield													
ICE BofA US High Yield Index	6.16	93.2	7.75	315	4.9	3.3	1.19	1.51	1.51	11.04	2.21	4.03	4.36
Morningstar LSTA U.S. Leveraged Loan Index	S+3.63	96.7	9.82	463	4.3	_	0.85	2.46	2.46	12.47	5.99	5.48	4.55
Emerging Markets													
J.P. Morgan EM Bond Index (EMBI) Global Diversified	5.39	86.5	7.74	341	-	6.6	2.09	2.04	2.04	11.28	-1.40	0.71	3.05
J.P. Morgan Corp. EM Bond Index (CEMBI) Broad Diversified	4.96	92.9	6.65	231	-	4.3	1.00	2.32	2.32	9.17	-0.13	2.63	3.73
J.P. Morgan Govt. Bond Index-EM (GBI-EM) Global Diversified	5.33	-	6.27	-	-	5.0	-0.03	-2.12	-2.12	4.91	-1.60	0.13	-0.32
Global Developed Markets													
Bloomberg Global Aggregate Ex-U.S. Index	2.19	95.8	2.79	35	8.7	7.1	0.24	-3.21	-3.21	-0.71	-6.53	-2.49	-1.38
FTSE World Government Bond Index	2.31	-	3.48	-	-	7.3	0.43	-2.42	-2.42	-0.84	-6.12	-2.21	-0.82
ICE BofA European Union Government Bond Index	2.01	93.8	2.95	48	9.1	7.4	0.82	-2.92	-2.92	3.27	-7.67	-2.48	-1.46
ICE BofA Developed Mkts HY Ex-Sub Fincl Index (USD Hedged)	5.86	93.1	7.50	347	3.7	3.1	1.00	1.60	1.60	11.45	2.39	4.12	4.50
Bloomberg Euro-Aggregate Corporates (EUR)	2.24	94.5	3.66	114	5.1	4.4	1.22	0.47	0.47	6.82	-2.18	-0.33	1.25
Bloomberg Pan-European High Yield Euro (EUR)	4.42	93.8	7.56	347	3.6	3.0	0.43	1.54	1.54	10.87	1.17	2.62	3.38

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 3/31/24. 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)



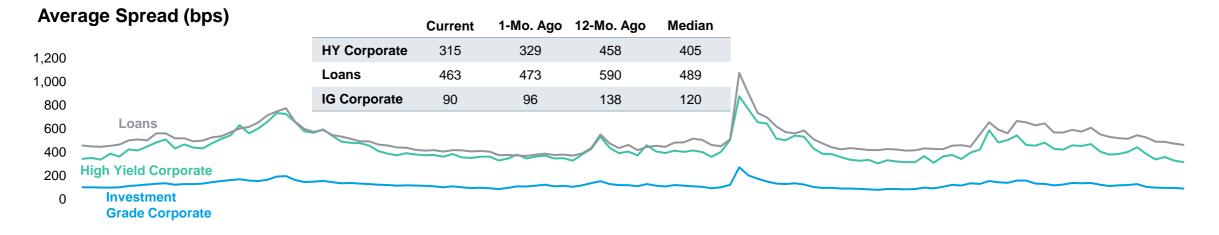
Past performance is no guarantee of future results. It is not possible to invest directly in an index. Source: Factset and Leveraged Commentary & Data (LCD) as of 3/31/24. Spread history measures past 10 years. Data provided is for informational use only. See end of report for important additional information. 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. Mortgage Backed Securities (MBS) Index. ABS represented by Bloomberg U.S. Asset Backed Securities (ABS) Index. CMBS represented by Bloomberg U.S. 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. 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						Total Returns (%)						
	Coupon (%)	Price (\$)	Yield to Worst (%)	Spread (bps)	Maturity (yrs.)	Duration (yrs.)	1-Mo.	3-Мо.	YTD	1Y	3Y	5`	Y
J.S. High Grade													
Bloomberg U.S. Corp. Investment Grade Index	4.13	92.4	5.30	90	10.8	7.0	1.29	-0.40	-0.40	4.43	-1.87	1.52	
AAA Index	3.17	84.1	4.73	34	18.2	10.7	1.51	-1.64	-1.64	0.16	-4.00	0.11	
AA Index	3.47	89.1	4.88	44	12.8	8.0	1.23	-0.98	-0.98	1.95	-3.00	0.07	
A Index	3.99	92.7	5.17	77	10.6	7.0	1.21	-0.55	-0.55	3.70	-2.09	1.19	
BBB Index	4.39	92.9	5.50	110	10.5	6.8	1.38	-0.14	-0.14	5.59	-1.44	2.09	
I.S. High Yield													
CE BofA U.S. High Yield Index	6.16	93.2	7.75	315	4.9	3.3	1.19	1.51	1.51	11.04	2.21	4.03	
BB Index	5.53	95.5	6.49	190	5.2	3.6	1.26	1.10	1.10	8.99	1.81	4.28	
B Index	6.56	94.8	7.72	308	4.6	3.0	1.04	1.48	1.48	11.41	2.34	3.69	
CCC Index	7.35	80.6	13.14	857	4.3	2.9	1.26	3.22	3.22	18.49	2.95	3.61	
Morningstar LSTA U.S. Leveraged Loan Index	S+3.63	96.7	9.82	463	4.3	-	0.85	2.46	2.46	12.47	5.99	5.48	
BBB Index	S+2.08	100.0	7.41	208	4.7	-	0.77	1.80	1.80	8.26	5.11	4.43	
BB Index	S+2.88	99.6	8.33	303	4.6	-	0.80	2.00	2.00	10.09	5.75	4.69	
B Index	S+3.89	98.4	9.76	450	4.3	-	0.87	2.45	2.45	13.32	6.36	5.88	
CCC Index	S+4.87	82.4	18.26	1300	3.6	-	1.01	5.17	5.17	18.97	4.67	4.90	
D Index	-	42.4	-	-	-	-	-0.18	-3.93	-3.93	-5.28	-24.35	-25.19	

Past performance is no guarantee of future results. It is not possible to invest directly in an index. Source: Bloomberg, JPMorgan, ICE BofA Data Indices, LLC, Factset, and Leveraged Commentary & Data (LCD), as of 3/31/24. 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 3/31/24. 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

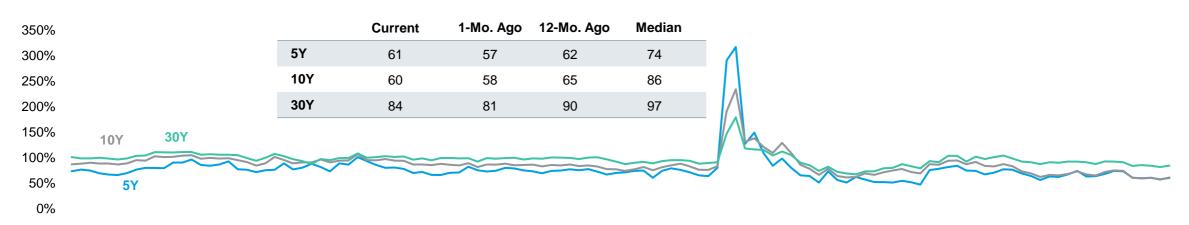
			Averages			Total Returns (%)						
	Coupon (%)	Price (\$)	Yield To Worst (%)	Maturity (yrs.)	Duration (yrs.)	1-Mo.	3-Мо.	YTD	1Y	3Y	5Y	10Y
Bloomberg Municipal Bond Index	4.54	102.3	3.49	13.4	6.1	0.00	-0.39	-0.39	3.13	-0.41	1.59	2.66
AAA Index	4.47	103.3	3.33	12.9	6.3	-0.13	-0.81	-0.81	2.39	-0.68	1.26	2.10
AA Index	4.57	103.5	3.35	12.9	5.9	-0.14	-0.56	-0.56	2.61	-0.51	1.43	2.43
A Index	4.53	100.4	3.75	13.9	5.9	0.24	0.10	0.10	4.30	-0.05	1.97	3.13
BBB Index	4.48	96.5	4.29	17.0	7.1	0.74	0.60	0.60	5.67	0.08	2.41	3.92
5-Year Index	4.69	105.7	3.06	5.0	3.6	-0.12	-0.37	-0.37	1.95	-0.30	1.25	1.74
10-Year Index	4.56	106.5	3.04	9.9	5.3	-0.09	-0.54	-0.54	2.39	-0.07	1.82	2.84
22+ Year Index	4.51	97.2	4.18	26.5	10.1	-0.01	-0.75	-0.75	4.09	-1.70	1.29	3.29
Bloomberg High Yield Municipal Bond Index	4.64	66.2	5.50	19.6	6.9	1.19	1.51	1.51	7.91	0.55	3.03	4.55
Hospital	5.29	85.7	6.36	20.6	6.7	1.96	2.02	2.02	5.98	-0.85	0.95	3.90
IDR/PCR	4.30	39.8	5.68	19.5	6.8	0.78	1.41	1.41	7.97	0.23	3.35	5.99
Tobacco	2.38	18.9	6.09	28.6	10.0	0.27	-1.03	-1.03	9.02	-0.76	4.10	7.56
Puerto Rico	3.64	56.8	4.57	19.3	7.1	0.54	2.17	2.17	13.73	2.46	5.90	4.35

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

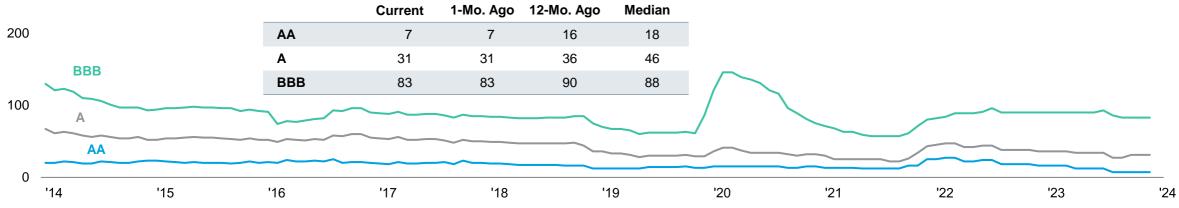
It is not possible to invest directly in an index. Source: Bloomberg, Morningstar as of 3/31/24. Coupon and Yield To Worst figures are based on average market prices while Price is based on an average of par value. Data provided is for informational use only. See end of report for important additional information.

### Municipal Bond Market Update

### AAA Muni-to-Treasury Yield Ratios



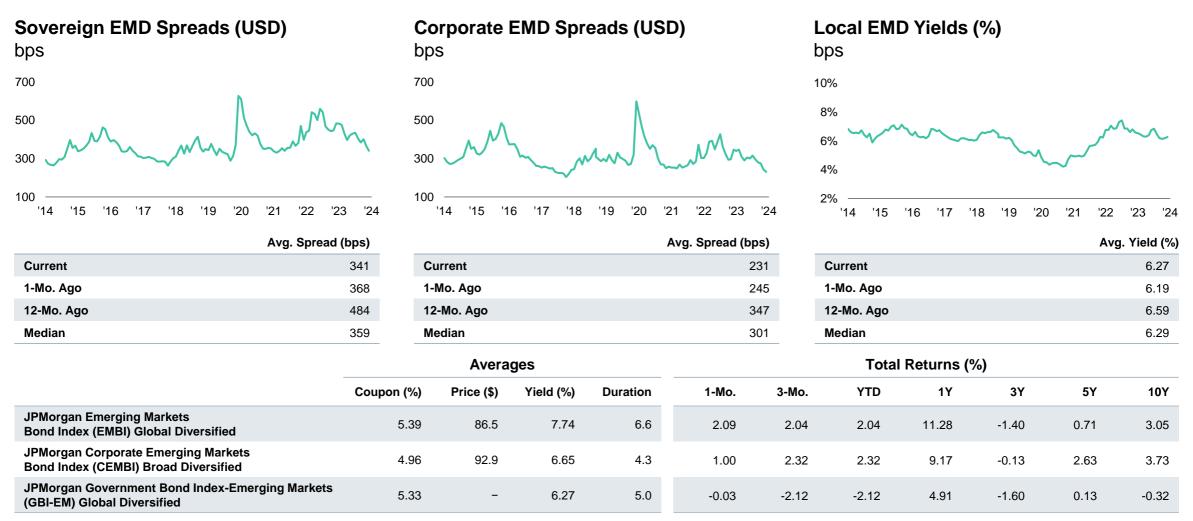
### Credit Quality Spreads vs. AAA (bps)



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

It is not possible to invest directly in an index. Source: Bloomberg as of 3/31/24. 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**



#### 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 3/31/24. 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) <b>15.21</b>	Municipal <b>1.28</b>	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>2.46</b>
	Investment Grade <b>7.46</b>	MBS 1.51	EMD (Hard Currency) <b>10.19</b>	Global Agg Ex-U.S. <b>10.5</b> 1	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>2.32</b>
	MBS 6.08	EMD (Corp. Bonds) <b>1.30</b>	Bank Loan <b>10.16</b>	EMD (Hard Currency) <b>9.32</b>	Treasury <b>0.86</b>	High Yield <b>14.41</b>	Treasury <b>8.00</b>	Municipal <b>1.52</b>	High Yield <b>-11.22</b>	EMD (Local Currency) <b>12.70</b>	High Yield <b>1.51</b>
	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) <b>-11.69</b>	EMD (Hard Currency) <b>10.45</b>	EMD (Hard Currency) <b>1.40</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) <b>-1.65</b>	EMD (Corp. Bonds) <b>13.09</b>	High Yield <b>6.17</b>	Investment Grade <b>-1.04</b>	MBS -11.81	EMD (Corp. Bonds) <b>9.08</b>	Municipal <b>-0.39</b>
	EMD (Corp. Bonds) <b>4.96</b>	Investment Grade <b>-0.68</b>	Investment Grade <b>6.11</b>	Investment Grade <b>6.42</b>	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) <b>-12.26</b>	Investment Grade <b>8.52</b>	Investment Grade <b>-0.40</b>
	High Yield <b>2.50</b>	Bank Loan <b>-0.69</b>	MBS <b>1.67</b>	Municipal <b>5.45</b>	High Yield <b>-2.26</b>	Municipal <b>7.54</b>	Municipal <b>5.21</b>	EMD (Hard Currency) <b>-1.51</b>	Treasury <b>-12.46</b>	Municipal <b>6.40</b>	Treasury <b>-0.96</b>
	Bank Loan <b>1.60</b>	High Yield <b>-4.64</b>	Global Agg Ex-U.S. <b>1.49</b>	Bank Loan <b>4.12</b>	Investment Grade -2.51	Treasury <b>6.86</b>	MBS <b>3.87</b>	Treasury <b>-2.32</b>	Investment Grade <b>-15.76</b>	Global Agg Ex-U.S. <b>5.72</b>	MBS -1.04
Lower	Global Agg Ex-U.S. <b>-3.08</b>	Global Agg Ex-U.S. <b>-6.02</b>	Treasury <b>1.04</b>	MBS <b>2.47</b>	EMD (Hard Currency) <b>-4.61</b>	MBS <b>6.35</b>	Bank Loan <b>3.12</b>	Global Agg Ex-U.S. <b>-7.05</b>	EMD (Hard Currency) <b>-16.45</b>	MBS <b>5.05</b>	EMD (Local Currency) <b>-2.12</b>
	EMD (Local Currency) <b>-5.72</b>	EMD (Local Currency) <b>-14.92</b>	Municipal <b>0.25</b>	Treasury 2.31	EMD (Local Currency) -6.21	Global Agg Ex-U.S. <b>5.09</b>	EMD (Local Currency) <b>2.69</b>	EMD (Local Currency) <b>-8.75</b>	Global Agg Ex-U.S. <b>-18.70</b>	Treasury <b>4.05</b>	Global Agg Ex-U.S. <b>-3.21</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 3/31/24. 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 Aggregate Ex-USD Index. EMD (Local Currency) represented by J.P. Morgan Government Bond Index-Emerging Markets (GBI-EM) Global Diversified. EMD (Hard Currency) represented by J.P. Morgan Corporate Emerging Market Bond Index (CEMBI) Broad Diversified.

### Performance: Market Barometer (%)

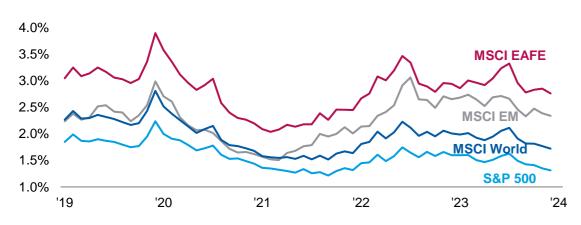


#### Past performance is no guarantee of future results.

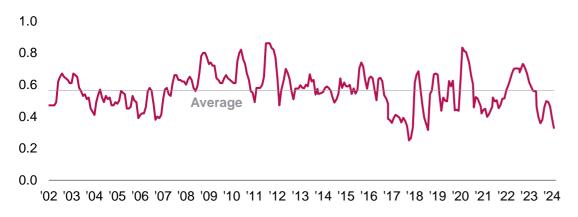
It is not possible to invest directly in an index. Source: Morningstar as of 3/31/24. Data provided is for informational use only. See end of report for important additional information. Returns over 1 year are annualized. Large Cap Value represented by Russell 1000 Value Index. Large Cap Core represented by Russell 1000 Index. Large Cap Growth represented by Russell 1000 Growth Index. Mid Cap Value represented by Russell Mid Cap Index. Mid Cap Growth represented by Russell Mid Cap Growth Index. Small Cap Value represented by Russell 2000 Value Index. Mid Cap Growth represented by Russell 2000 Index. Small Cap Growth Index. Small Cap Value represented by Russell 2000 Growth Index. Small Cap Growth represented by Russell 2000 Growth Index. Small Cap Cap Growth Index. US represented by S&P 500 Index. International represented by MSCI EAFE Index. Emerging Markets represented by MSCI Emerging Markets Index.

### **Dividend Yields and Volatility Analysis**

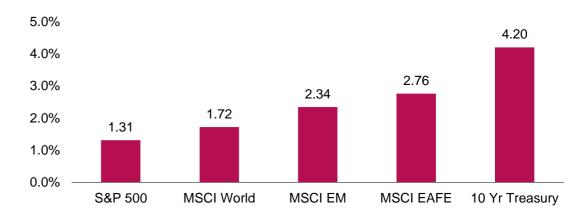
#### **Historical Yields**



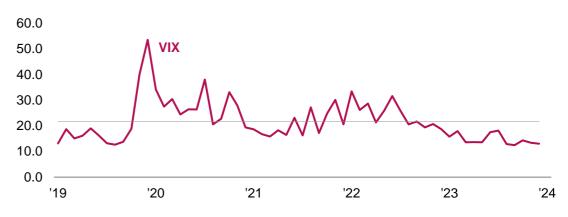
### Correlation of S&P 500 Stocks



#### **Current Yields**



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

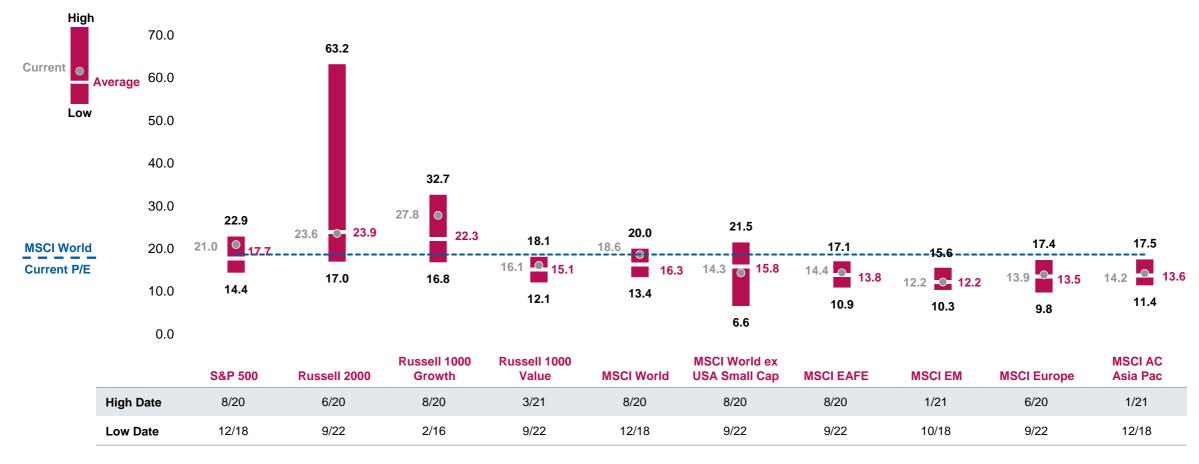


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It is not possible to invest directly in an index. Source: FactSet and Ned Davis Research as of 3/31/24. Correlation of S&P 500 Stocks is measured by the median 63-day rolling correlation of one day returns data provided is for informational use only. See end of report for important additional information.

### Valuation Analysis

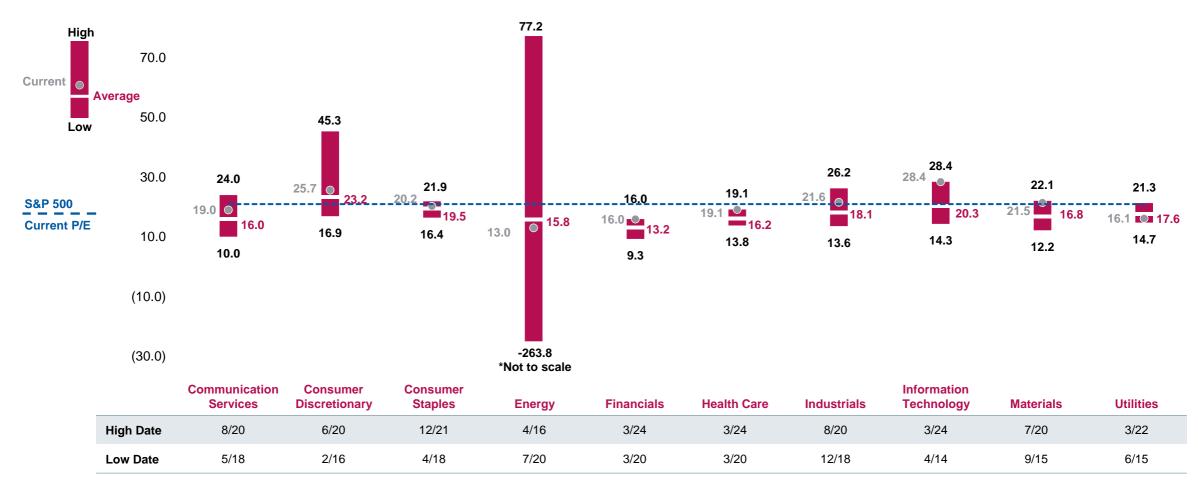
### Regions/Styles: Current NTM P/E vs. 10-Year High, Low, Average



Source: FactSet as of 3/31/24. 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.

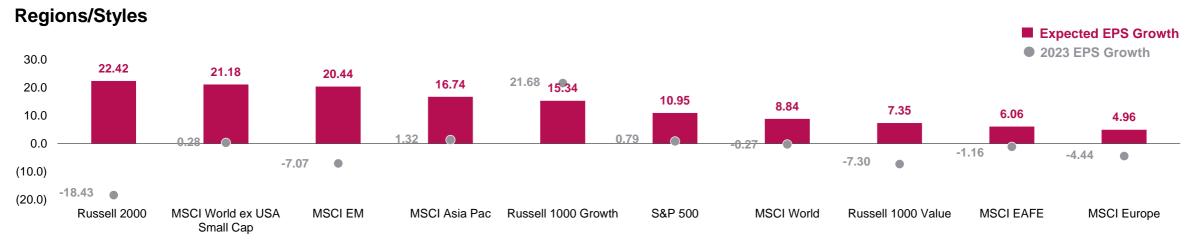
### Valuation Analysis

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

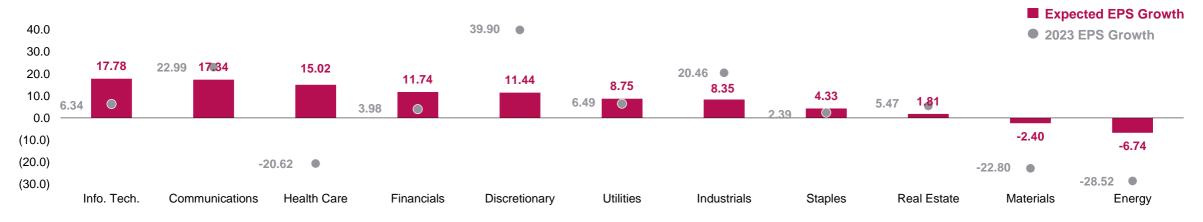


Source: FactSet as of 3/31/24. NTM P/E is market price per share divided by expected earnings per share over the next twelve months. The Real Estate sector is excluded from this 10-year chart since the sector was created on August 31, 2016. Data provided is for informational use only. See end of report 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**



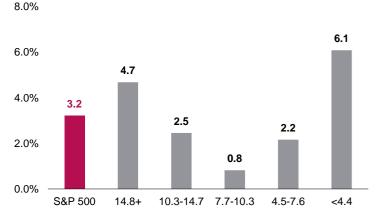
### S&P 500 Sectors

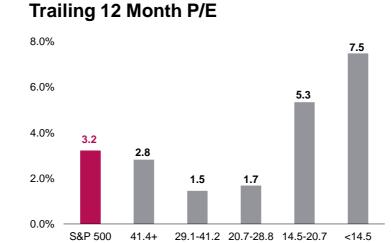


Source: FactSet as of 3/31/24. Expected EPS Growth is defined as the expected % change in the EPS growth from the beginning of the current calendar year though the end of the calendar year. 2023 EPS Growth is defined as the % change in EPS from the beginning of the year through the end of the year. Data 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.

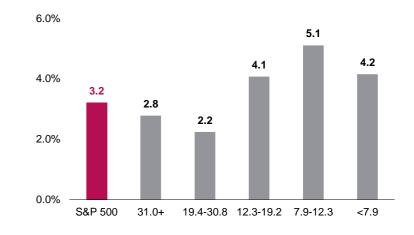
### S&P 500 Index: 1-Month Return Analysis

3-5 Year Earnings Growth

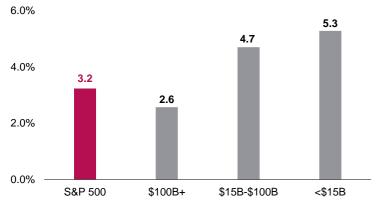




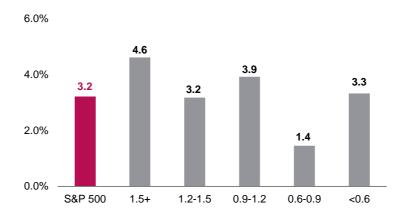
**Return On Equity** 



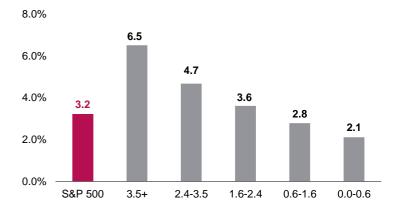
Market Cap



Beta



**Dividend Yield** 

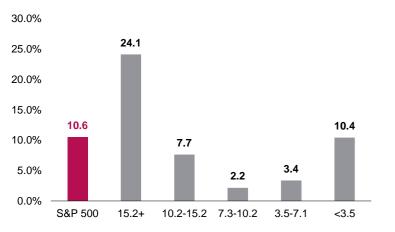


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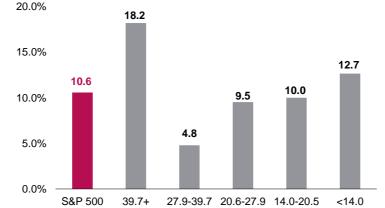
It is not possible to invest directly in an index. Source: FactSet as of 3/31/24. Data provided is for informational use only. See end of report for important additional information.

### S&P 500 Index: YTD Analysis

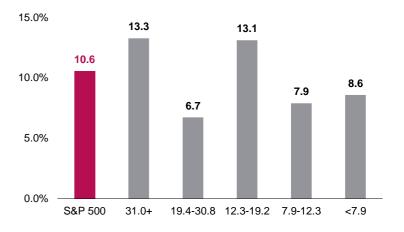
3-5 Year Earnings Growth



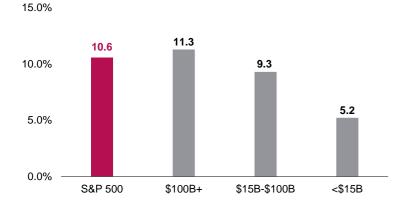
### Trailing 12 Month P/E



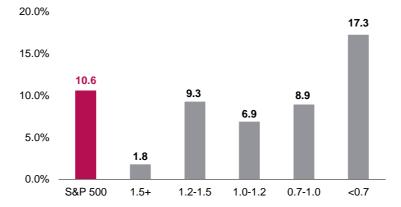
**Return On Equity** 



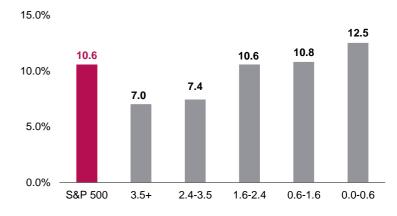
Market Cap



Beta



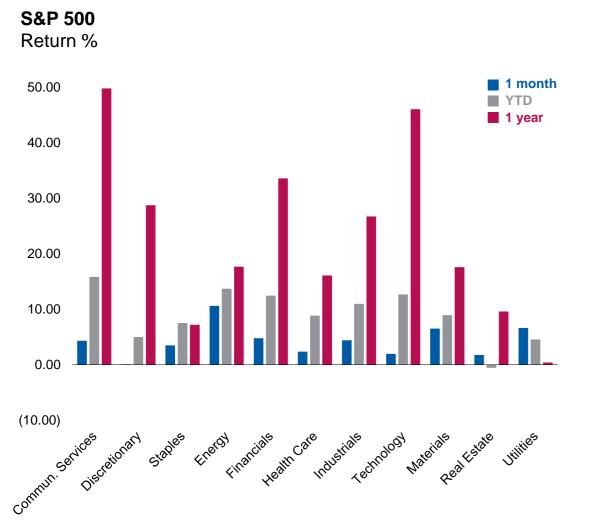
**Dividend Yield** 

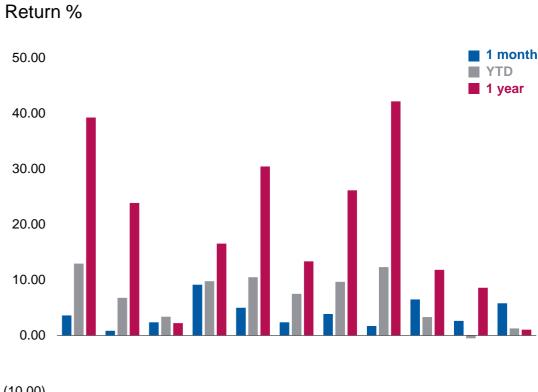


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### Index Sectors: Return Analysis





**MSCI World** 

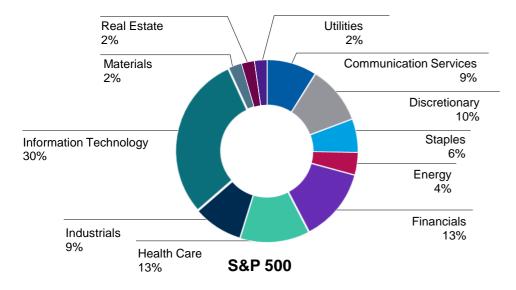


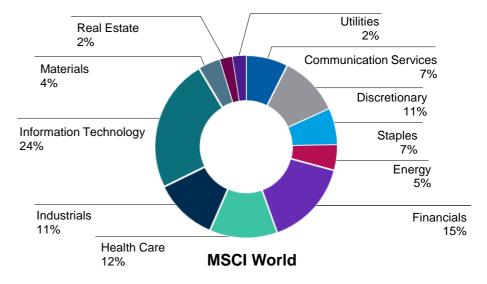
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It is not possible to invest directly in an index. Source: Morningstar as of 3/31/24. Data provided is for informational use only. See end of report for important additional information.

### **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	1947	443	846	1465	2371	768	1376	421	1464
Maximum Market Cap	\$3,126.13B	\$59.14B	\$3,126.13B	\$909.70B	\$2,970.56B	\$8.55B	\$416.42B	\$599.65B	\$416.42B	\$599.65B
Minimum Market Cap	\$5.96B	\$0.02B	\$0.69B	\$0.35B	\$1.43B	\$0.09B	\$1.43B	\$0.11B	\$2.05B	\$0.11B
Dividend Yield	1.31	1.28	0.63	2.09	1.72	2.74	2.76	2.34	2.87	2.27
NTM PE	20.96	23.57	27.83	16.10	18.64	14.32	14.37	12.20	13.86	14.23
Price to Book	4.70	2.14	12.35	2.55	3.32	1.39	1.92	1.73	2.11	1.69
Price to Cash Flow	15.89	12.89	24.67	11.00	13.53	10.25	9.92	8.15	8.76	10.83
Price to Sales	2.82	1.30	4.71	1.77	2.18	0.88	1.36	1.34	1.36	1.36
Est 3-5 Yr EPS Growth	14.00	13.17	17.64	8.91	12.85	12.42	10.01	17.81	10.34	14.58
5Yr. Div Growth Rate	4.44	6.25	5.35	1.12	3.29	4.90	1.88	2.71	1.81	0.96





Source: FactSet as of 3/31/24. 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-Мо.	YTD	1Y	3Y	5Y	10Y	2023	2022	2021	2020	2019
	S&P 500	3.22	10.56	10.56	29.88	11.49	15.05	12.96	26.29	-18.11	28.71	18.40	31.49
	Russell 1000 Defensive	2.36	7.62	7.62	22.94	9.70	12.49	11.97	20.23	-16.43	26.93	13.93	30.47
	Russell 1000 Dynamic	4.03	12.98	12.98	37.22	11.15	16.80	13.20	33.34	-21.94	25.57	27.69	32.35
U.S.	Russell 2500	4.13	6.92	6.92	21.43	2.97	9.90	8.84	17.42	-18.37	18.18	19.99	27.77
Equities	Russell 1000 Growth	1.76	11.41	11.41	39.00	12.50	18.52	15.98	42.68	-29.14	27.60	38.49	36.39
	Russell 1000 Value	5.00	8.99	8.99	20.27	8.11	10.32	9.01	11.46	-7.54	25.16	2.80	26.54
	Russell Mid Cap	4.34	8.60	8.60	22.35	6.07	11.10	9.95	17.23	-17.32	22.58	17.10	30.54
	Russell 2000	3.58	5.18	5.18	19.71	-0.10	8.10	7.58	16.93	-20.44	14.82	19.96	25.52
	CBOE S&P 500 Buywrite BXM	2.20	6.02	6.02	11.89	6.18	5.93	5.94	11.82	-11.37	20.47	-2.75	15.68
	MSCI World	3.21	8.88	8.88	25.11	8.60	12.07	9.39	23.79	-18.14	21.82	15.90	27.67
	MSCI EAFE	3.29	5.78	5.78	15.32	4.78	7.33	4.80	18.24	-14.45	11.26	7.82	22.01
	MSCI EM	2.48	2.37	2.37	8.15	-5.05	2.22	2.95	9.83	-20.09	-2.54	18.31	18.44
Global	MSCI AC Asia Pac	2.75	5.04	5.04	11.74	-2.29	4.47	4.98	11.45	-17.22	-1.46	19.71	19.36
Equities	MSCI ACWI	3.14	8.20	8.20	23.22	6.96	10.92	8.66	22.20	-18.36	18.54	16.25	26.60
Equilies	MSCI Europe	3.74	5.23	5.23	14.11	6.19	7.96	4.44	19.89	-15.06	16.30	5.38	23.77
	MSCI World Small Cap	3.89	4.39	4.39	15.87	1.27	7.90	6.94	15.76	-18.76	15.75	15.96	26.19
	MSCI World Ex USA Small Cap	4.06	2.58	2.58	10.04	-0.93	5.39	4.54	12.62	-20.59	11.14	12.78	25.41
	FTSE 100	4.71	3.04	3.04	10.73	6.68	5.04	2.97	14.38	-7.01	17.36	-8.73	22.03
	FTSE All Small	2.08	-0.70	-0.70	10.18	-1.72	5.72	3.88	12.57	-23.06	22.15	10.77	22.63
	STOXX Europe 600	3.83	5.24	5.24	14.32	5.72	8.04	4.55	19.87	-16.14	16.09	6.83	24.53
	Nikkei 225 Average	2.49	13.04	13.04	28.48	1.97	8.54	8.00	22.05	-19.49	-4.69	23.99	21.35
	S&P 500 Comm. Services	4.34	15.82	15.82	49.76	6.86	13.67	9.35	55.80	-39.89	21.57	23.61	32.69
Contorro	S&P 500 Cons Disc	0.10	4.98	4.98	28.73	4.34	11.54	12.56	42.41	-37.03	24.43	33.30	27.94
Sectors	S&P 500 Cons Staples	3.49	7.52	7.52	7.19	8.00	9.96	9.27	0.52	-0.62	18.63	10.75	27.61
	S&P 500 Energy	10.60	13.69	13.69	17.67	30.00	12.86	4.74	-1.33	65.72	54.64	-33.68	11.81
	S&P 500 Financials	4.78	12.46	12.46	33.55	9.52	12.76	11.06	12.15	-10.53	35.04	-1.69	32.13
	S&P 500 Health Care	2.38	8.85	8.85	16.09	10.01	12.05	11.67	2.06	-1.95	26.13	13.45	20.82
	S&P 500 Industrials	4.41	10.97	10.97	26.70	10.44	12.97	11.14	18.13	-5.48	21.12	11.06	29.37
	S&P 500 Info Tech	1.97	12.69	12.69	46.01	18.99	25.39	21.97	57.84	-28.19	34.53	43.89	50.29
	S&P 500 Materials	6.50	8.95	8.95	17.57	7.87	13.30	9.23	12.55	-12.27	27.28	20.73	24.58
	S&P 500 Real Estate	1.77	-0.55	-0.55	9.60	3.44	5.32	8.00	12.36	-26.13	46.19	-2.17	29.01
	S&P 500 Utilities	6.62	4.57	4.57	0.42	4.14	5.87	8.35	-7.08	1.57	17.67	0.48	26.35

Past performance is no guarantee of future results. It is not possible to invest directly in an index. Source: Morningstar as of 3/31/24. Data provided is for informational use only. Results in US Dollar. See end of report for additional information.

### EQUITIES

# Asset Class Return Analysis (%)

Higher	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD 2024
A l	S&P 500 <b>13.69</b>	Growth <b>5.67</b>	Small-Cap 21.31	Emerging Markets <b>37.28</b>	Growth -1.51	Growth <b>36.39</b>	Growth <b>38.49</b>	S&P 500 <b>28.71</b>	Value <b>-7.54</b>	Growth <b>42.68</b>	Growth 11.41
	Value 13.45	International Small-Cap <b>5.46</b>	Value 17.34	International Small-Cap <b>31.04</b>	S&P 500 <b>-4.38</b>	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>10.56</b>
	Mid-Cap <b>13.22</b>	S&P 500 <b>1.38</b>	Mid-Cap <b>13.80</b>	Growth <b>30.21</b>	Value <b>-8.27</b>	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>	Value <b>8.99</b>
	Growth 13.05	International -0.81	S&P 500 <b>11.96</b>	International <b>25.03</b>	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 -18.11	International 18.24	Mid-Cap <b>8.60</b>
	Small-Cap <b>4.89</b>	Global <b>-2.36</b>	Emerging Markets <b>11.19</b>	Global 23.97	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>	Global <b>8.20</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 25.52	Global <b>16.25</b>	Small-Cap 14.82	Emerging Markets <b>-20.09</b>	Small-Cap 16.93	International <b>5.78</b>
	Emerging Markets <b>-2.19</b>	Value -3.83	Growth <b>7.08</b>	Mid-Cap <b>18.52</b>	International - <b>13.79</b>	International Small-Cap <b>25.41</b>	International Small-Cap <b>12.78</b>	International 11.26	Small-Cap <b>-20.44</b>	International Small-Cap <b>12.62</b>	Small-Cap <b>5.18</b>
	International -4.90	Small-Cap -4.41	International Small-Cap <b>4.32</b>	Small-Cap 14.65	Emerging Markets <b>-14.58</b>	International <b>22.01</b>	International <b>7.82</b>	International Small-Cap <b>11.14</b>	International Small-Cap <b>-20.59</b>	Value 11.46	International Small-Cap <b>2.58</b>
Lower	International Small-Cap <b>-5.34</b>	Emerging Markets <b>-14.92</b>	International <b>1.00</b>	Value <b>13.66</b>	International Small-Cap <b>-18.07</b>	Emerging Markets 1 <b>8.42</b>	Value <b>2.80</b>	Emerging Markets <b>-2.54</b>	Growth <b>-29.14</b>	Emerging Markets <b>9.83</b>	Emerging Markets <b>2.37</b>

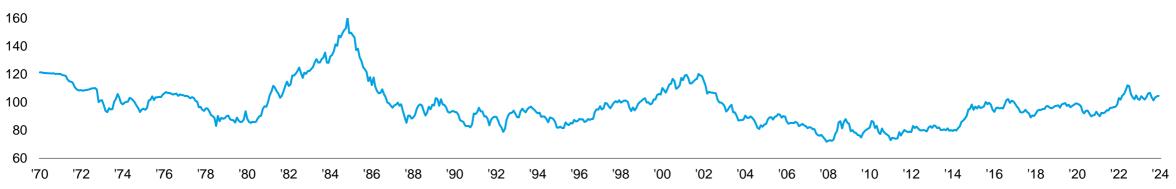
#### Past performance is no guarantee of future results.

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 3/31/24. 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 ACWI Index. Growth represented by Russell 1000 Growth Index. International represented by MSCI EAFE Index. International Small-Cap represented by MSCI World Ex USA Small Cap Index.

# **Developed Market Currency Performance and Yields**

		Spot Ret	urns vs. USI	D (%)			Spot Ret		Local Interest Rates (%)		
Currency	1-Mo.	YTD	1Y	3Y	5Y	1-Mo.	YTD	1Y	3Y	5Y	1Y
U.S. Dollar (USD)	-	-	-	-	-	0.20	2.28	0.59	2.86	0.78	5.06
Euro (EUR) *	-0.20	-2.23	-0.59	-2.78	-0.77	-	-	-	-	-	3.12
British Pound (GBP)	-0.13	-0.91	2.17	-2.90	-0.62	0.06	1.35	2.78	-0.12	0.16	4.23
Japanese Yen (JPY)	-1.11	-6.85	-12.06	-9.95	-6.07	-0.91	-4.72	-11.54	-7.38	-5.33	0.18
Australian Dollar (AUD)	0.19	-4.39	-2.59	-5.03	-1.69	0.39	-2.21	-2.01	-2.32	-0.92	4.03
Canadian Dollar (CAD)	0.23	-2.56	0.01	-2.43	-0.26	0.43	-0.34	0.60	0.36	0.52	4.72
New Zealand Dollar (NZD)	-1.82	-5.53	-4.39	-5.12	-2.59	-1.63	-3.37	-3.83	-2.41	-1.83	4.92
Norwegian Krone (NOK)	-2.30	-6.39	-3.46	-7.68	-4.51	-2.11	-4.25	-2.89	-5.04	-3.77	4.27
Swedish Krona (SEK)	-3.23	-5.75	-3.02	-6.59	-2.80	-3.04	-3.60	-2.44	-3.92	-2.05	3.42
Danish Krone (DKK)	-0.26	-2.29	-0.72	-2.87	-0.76	-0.07	-0.06	-0.13	-0.10	0.02	3.23
Swiss Franc (CHF)	-2.24	-6.56	1.43	1.48	2.03	-2.04	-4.42	2.03	4.38	2.83	0.94

### U.S. Dollar Index



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

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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)	-0.47	-1.87	-4.92	-3.20	-1.44	-0.28	0.37	-4.35	-0.44	-0.68	1.67
Malaysian Ringgit (MYR)	0.26	-2.92	-6.77	-4.31	-2.91	0.46	-0.70	-6.22	-1.58	-2.16	3.27
Indian Rupee (INR)	-0.58	-0.23	-1.46	-4.29	-3.64	-0.39	2.05	-0.88	-1.56	-2.89	7.01
Indonesian Rupiah (IDR)	-0.88	-2.89	-5.43	-2.88	-2.13	-0.69	-0.67	-4.86	-0.10	-1.36	6.28
Philippine Peso (PHP)	0.00	-1.49	-3.29	-4.78	-1.35	0.20	0.75	-2.72	-2.06	-0.58	5.96
Singapore Dollar (SGD)	-0.37	-2.26	-1.49	-0.15	0.07	-0.18	-0.03	-0.90	2.71	0.85	3.41
South Korean Won (KRW)	-1.09	-4.33	-3.30	-5.62	-3.35	-0.89	-2.15	-2.72	-2.92	-2.60	3.40
Taiwanese Dollar (TWD)	-1.23	-4.10	-4.86	-3.75	-0.75	-1.04	-1.92	-4.30	-1.00	0.02	1.23
Thai Baht (THB)	-1.71	-6.45	-6.28	-5.03	-2.75	-1.51	-4.32	-5.73	-2.32	-1.99	2.11
Latin America											
Brazilian Real (BRL)	-0.74	-2.96	1.29	4.08	-4.91	-0.54	-0.74	1.89	7.05	-4.17	9.89
Chilean Peso (CLP)	-1.41	-10.97	-19.40	-9.86	-7.05	-1.22	-8.94	-18.92	-7.28	-6.33	5.75
Colombian Peso (COP)	1.59	0.23	20.54	-1.67	-3.79	1.79	2.51	21.26	1.14	-3.04	8.29
Mexican Peso (MXN)	2.68	1.88	8.63	7.17	3.14	2.88	4.20	9.28	10.23	3.94	10.99
Peruvian New Sol (PEN)	1.44	-0.48	1.09	0.37	-2.25	1.64	1.79	1.69	3.24	-1.49	5.48

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# **Emerging Market Currency Performance and Yields**

		Spot Ret	turns vs. US	6D (%)		Spot Returns vs. EUR (%)					Local Interest Rates (%)
Currency	1-Mo.	YTD	1Y	3Y	5Y	1-Mo.	YTD	1Y	3Y	5Y	1Y
Europe											
Czech Koruna (CZK)	-0.12	-4.54	-7.71	-1.72	-0.35	0.08	-2.37	-7.16	1.09	0.43	3.70
Hungarian Forint (HUF)	-0.41	-5.17	-4.05	-5.47	-4.72	-0.21	-3.00	-3.48	-2.77	-3.98	6.57
Polish Zloty (PLN)	0.00	-1.39	8.03	-0.35	-0.78	0.20	0.86	8.68	2.50	-0.01	5.07
Romanian Leu (RON)	-0.20	-2.14	-1.05	-3.10	-1.55	-0.01	0.09	-0.46	-0.34	-0.78	5.81
Russian Ruble (RUB)	-1.59	-3.43	-16.07	-6.56	-6.63	-1.40	-1.23	-15.57	-3.89	-5.90	
Turkish New Lira (TRY)	-3.50	-8.71	-40.67	-36.52	-29.46	-3.31	-6.63	-40.32	-34.70	-28.91	42.49
Middle East and Africa											
Ghanaian Cedi (GHS)	-4.72	-10.08	-12.83	-24.14	-16.93	-4.53	-8.03	-12.31	-21.97	-16.29	17.90
Israeli Shekel (ILS)	-2.51	-1.71	-1.72	-3.09	-0.19	-2.32	0.53	-1.14	-0.32	0.59	3.94
Kenyan Shilling (KES)	11.57	19.16	0.57	-6.02	-5.22	11.79	21.88	1.17	-3.34	-4.48	16.68
Moroccan Dirham (MAD)	-0.36	-2.46	1.07	-3.64	-0.91	-0.17	-0.23	1.67	-0.88	-0.14	2.98
Nigerian Naira (NGN)	21.11	-31.23	-64.69	-32.05	-22.66	21.35	-29.66	-64.48	-30.10	-22.06	11.54
South African Rand (ZAR)	1.31	-3.43	-6.30	-7.96	-5.30	1.51	-1.22	-5.75	-5.33	-4.56	9.21
Ugandan Shilling (UGX)	1.03	-2.83	-2.96	-1.97	-0.91	1.23	-0.61	-2.38	0.84	-0.14	13.25
Zambian Kwacha (ZMK)	-5.78	3.21	-14.99	-3.91	-13.41	-5.59	5.57	-14.49	-1.17	-12.74	15.45

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# Local Sovereign Currency Yields

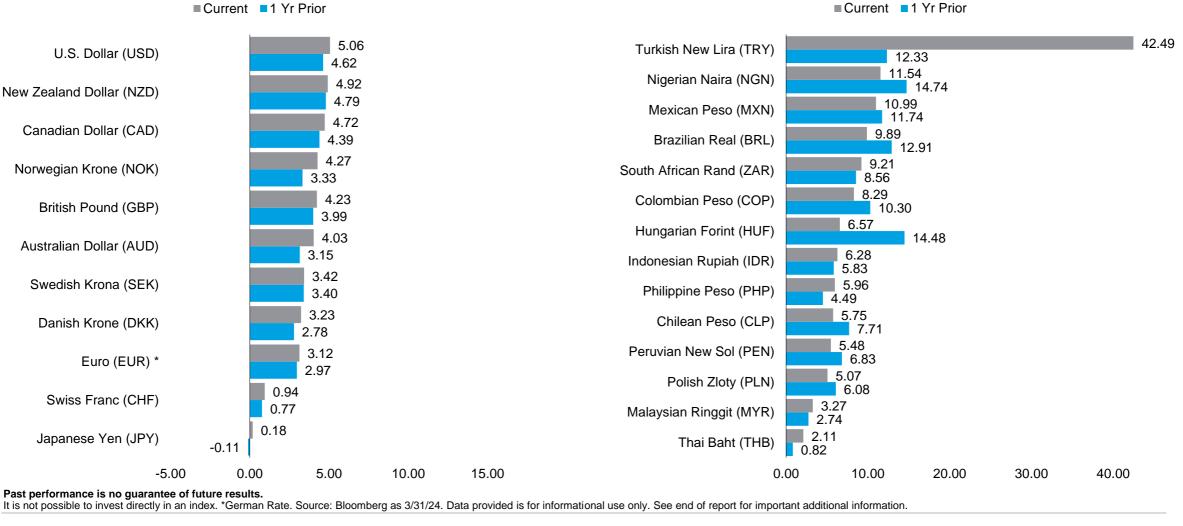
### **Developed Market Local Interest Rates % (1 Year)**



■ Current ■ 1 Yr Prior

15.00





Past performance is no guarantee of future results.

# Commodities Return Analysis (%)

Index	1-Mo.	3-Мо.	YTD	1Y	3Y	5Y
Bloomberg Commodity Index	3.31	2.19	2.19	-0.56	9.11	6.38
Bloomberg Sub Agriculture	2.51	-2.96	-2.96	-7.29	8.32	10.68
Coffee	2.86	3.77	3.77	25.90	20.58	13.24
Corn	3.33	-7.57	-7.57	-22.91	2.50	7.55
Cotton	-7.85	13.51	13.51	15.26	14.47	8.17
Soybean	4.88	-7.48	-7.48	-5.99	6.26	12.07
Soybean Oil	6.50	-0.13	-0.13	-5.12	8.49	17.30
Sugar	4.25	14.31	14.31	13.48	23.46	14.89
Wheat	-2.38	-10.06	-10.06	-24.21	-8.47	-0.55
Bloomberg Sub Energy	2.43	4.84	4.84	1.03	13.21	-1.23
Brent Crude	7.08	15.64	15.64	20.81	29.70	14.79
Heating Oil	1.47	13.07	13.07	27.41	41.30	16.91
Natural Gas	-11.84	-28.71	-28.71	-50.14	-28.40	-31.60
Unleaded Gas	6.25	18.73	18.73	25.14	35.69	20.49
WTI Crude Oil	7.83	17.70	17.70	21.77	23.89	3.47

Index	1-Mo.	3-Мо.	YTD	1Y	3Y	5Y
Bloomberg Sub Industrial Metals	1.75	-0.73	-0.73	-7.88	2.20	4.82
Aluminum	4.90	-2.24	-2.24	-4.32	1.03	2.02
Copper	4.59	3.74	3.74	0.27	1.67	7.11
Nickel	-6.38	0.72	0.72	-29.62	2.13	5.52
Zinc	0.37	-8.67	-8.67	-14.13	-1.20	-0.93
Bloomberg Sub Precious Metals	8.56	6.57	6.57	9.93	6.57	10.05
Gold	8.33	7.37	7.37	12.05	8.47	10.24
Platinum	3.59	-8.43	-8.43	-6.11	-7.00	1.82
Silver	9.32	3.83	3.83	2.76	0.16	9.24
Bloomberg Sub Livestock	-0.79	10.97	10.97	13.71	4.77	-2.67
Lean Hogs	-2.22	14.97	14.97	11.66	-0.14	-8.04
Live Cattle	-0.12	9.03	9.03	14.78	7.21	0.44

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# Asset Class Return Analysis (%)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD 2024
Higher ▲	Managed Futures 18.37	Multi-Strategy <b>3.84</b>	MLP 18.31	Long/Short Equity 13.41	Fixed Income Arbitrage <b>1.10</b>	Long/Short Equity <b>12.17</b>	Convertible Arbitrage <b>10.25</b>	MLP <b>40.17</b>	MLP <b>30.92</b>	MLP 26.56	MLP 8.96
	Multi-Strategy 6.09	Long/Short Equity <b>3.55</b>	Commodity 11.77	Currency 11.54	Global Macro <b>-0.11</b>	Global Macro 10.38	Long/Short Equity <b>7.86</b>	Commodity 27.11	Managed Futures 19.12	Long/Short Equity <b>10.93</b>	Managed Futures 6.32
	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 -1.05	Managed Futures 9.01	Event Driven 6.95	Event Driven <b>12.92</b>	Commodity 16.09	Event Driven <b>9.30</b>	Long/Short Equity 5.50
	MLP 4.80	Convertible Arbitrage <b>0.81</b>	Multi-Strategy 4.41	Multi-Strategy 6.83	Convertible Arbitrage <b>-2.26</b>	Event Driven 8.22	Global Macro 6.53	Global Macro <b>9.60</b>	Global Macro 15.89	Currency 8.44	Multi-Strategy 2.79
	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 5.60	Long/Short Equity 8.35	Equity Market Neutral <b>1.71</b>	Multi-Strategy 8.04	Global Macro 2.71
	Global Macro 3.11	Global Macro <b>0.18</b>	Global Macro 3.58	Event Driven 6.30	Event Driven -3.95	Commodity 7.69	Fixed Income Arbitrage 3.64	Managed Futures 8.19	Multi-Strategy 1.27	Fixed Income Arbitrage <b>7.71</b>	Event Driven 2.49
	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 6.97	Fixed Income Arbitrage <b>-0.97</b>	Equity Market Neutral <b>6.73</b>	Fixed Income Arbitrage <b>1.92</b>
	Equity Market Neutral <b>-1.19</b>	Event Driven -6.29	Event Driven <b>2.68</b>	Managed Futures 3.29	Equity Market Neutral <b>-5.00</b>	MLP 6.56	Currency 1.73	Convertible Arbitrage <b>6.33</b>	Convertible Arbitrage -3.32	Convertible Arbitrage <b>4.04</b>	Equity Market Neutral <b>1.75</b>
	Convertible Arbitrage <b>-1.68</b>	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	Convertible Arbitrage 1.12
	Currency -7.03	Commodity -24.66	Equity Market Neutral <b>-4.58</b>	Commodity 1.70	Commodity -11.25	Currency <b>5.20</b>	Commodity -3.12	Fixed Income Arbitrage <b>5.22</b>	Event Driven - <b>6.80</b>	Global Macro -5.19	Commodity -1.08
↓ Lower	Commodity -17.01	MLP -32.59	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 -1.10

Past performance is no guarantee of future results. It is not possible to invest directly in an index. Source: Morningstar as of 2/29/24. \*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 represented by Credit Suisse 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. Managed Futures represented by Credit Suisse Managed Futures 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	0.70	0.86	0.36	0.37	0.80	0.61	0.41
International	0.90	1.00	0.81	0.77	0.39	0.45	0.81	0.62	0.47
Emerging Markets	0.74	0.82	1.00	0.64	0.39	0.43	0.71	0.58	0.49
Small Cap	0.88	0.86	0.76	1.00	0.25	0.29	0.77	0.65	0.41
U.S. Aggregate	0.48	0.52	0.48	0.38	1.00	0.86	0.48	0.16	-0.06
Municipal	0.52	0.60	0.56	0.47	0.86	1.00	0.54	0.28	0.02
High Yield	0.83	0.83	0.72	0.84	0.56	0.67	1.00	0.81	0.52
Bank Loan	0.62	0.62	0.61	0.69	0.21	0.37	0.81	1.00	0.50
Commodities	0.45	0.50	0.50	0.46	-0.04	0.09	0.50	0.50	1.00
	_								

5 Years ended March 31, 2024

10 Years ended March 31, 2024

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

It is not possible to invest directly in an index. Source: Morningstar as of 3/31/24. 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 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)

3 Mo. 12 Mo.
J WO. 12 WO.
30,324 79,131
13,381 34,793
10,916 20,934
7,287 13,134
7,989 4,321
4,307 -3,700
3,088 14,951
2,418 2,805
2,509 1,596
3,130 5,971
2,509

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

	1 Mo.	3 Mo.	12 Mo.
Health	-1,029	-4,304	-14,645
Ultrashort Bond	-1,255	-2,131	-18,713
Global Large-Stock Blend	-1,258	-3,488	-8,858
Moderately Conservative Allocation	-1,352	-4,207	-17,393
Global Allocation	-1,470	-5,958	-16,541
Moderate Allocation	-1,719	-7,789	-34,147
Mid-Cap Value	-2,116	-6,519	-20,110
Mid-Cap Growth	-2,147	-8,726	-22,177
Large Value	-3,137	-17,480	-73,339
Large Growth	-10,947	-31,812	-95,876

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

	1 Mo.	3 Mo.	12 Mo.
Large Blend	8,987	75,494	233,504
Digital Assets	5,340	7,628	8,193
Large Growth	4,850	19,047	53,955
Intermediate Core Bond	4,829	13,541	47,838
Intermediate Government	4,120	6,168	28,375
Foreign Large Blend	3,278	14,203	41,095
Ultrashort Bond	3,213	-4,967	29,497
Long Government	3,181	7,304	43,111
Small Value	2,583	7,949	11,127
Intermediate Core-Plus Bond	2,256	7,896	18,925

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

	1 Mo.	3 Mo.	12 Mo.
Emerging Markets Bond	-793	78	3
Consumer Defensive	-901	-2,259	-4,880
Global Bond-USD Hedged	-988	2,128	7,902
Corporate Bond	-1,153	10,193	16,260
Equity Energy	-1,193	-3,246	-6,430
Natural Resources	-1,497	-2,341	-6,287
Financial	-1,690	483	-3,016
Commodities Focused	-2,375	-4,538	-10,954
Short Government	-3,549	-4,204	-1,016
TradingLeveraged Equity	-4,241	-8,783	-10,004

Source: Morningstar as of 2/29/24. 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 37.28	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>10.56</b>
	Municipal <b>9.05</b>	S&P 500 <b>1.38</b>	High Yield <b>17.49</b>	International 25.03	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 <b>5.78</b>
	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 <b>-8.53</b>	Small-Cap <b>16.93</b>	Small-Cap <b>5.18</b>
	Small-Cap <b>4.89</b>	Bank Loan <b>-0.69</b>	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	Asset Allocation 4.21
	Asset Allocation <b>4.28</b>	International -0.81	Emerging Markets 11.19	Asset Allocation 14.02	S&P 500 <b>-4.38</b>	Emerging Markets 18.42	International <b>7.82</b>	International 11.26	US Agg <b>-13.01</b>	High Yield <b>13.46</b>	Bank Loan <b>2.46</b>
	High Yield <b>2.50</b>	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>	Emerging Markets 2.37
	Bank Loan <b>1.60</b>	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	Commodities 2.19
	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 <b>1.52</b>	S&P 500 - <b>18.11</b>	Municipal <b>6.40</b>	High Yield 1.51
	International -4.90	Emerging Markets -14.92	International <b>1.00</b>	US Agg <b>3.54</b>	International -13.79	Commodities 7.69	Bank Loan <b>3.12</b>	US Agg -1.54	Emerging Markets -20.09	US Agg <b>5.53</b>	Municipal <b>-0.39</b>
	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	US Agg <b>-0.78</b>

Past performance is no guarantee of future results. It is not possible to invest directly in an index. Source: Morningstar as of 3/31/24. 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. The Asset Allocation portfolio assumes the following weights: 25% in the S&P 500 Index, 15% in the MSCI EAFE Index, 5% in the MSCI Emerging Markets Index, 10% in the Russell 2000 Index, 25% 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** Portfolio Manager and Co-Head of the Municipals team

JIM CARON CIO, Portfolio Solutions Group

AARON DUNN Portfolio Manager and Co-Head of the Eaton Vance Value team

RICHARD FORD Portfolio Manager and Co-Head of the Broad Markets Fixed Income team

JONATHAN G. ISAAC Portfolio Specialist

JITANIA KANDHARI Deputy CIO, Solutions & Multi Asset Group; Head of Macro & Thematic Research, Emerging Markets; Portfolio Manager

VISHAL KHANDUJA Portfolio Manager and Co-Head of the Broad Markets Fixed Income team

CHRISTOPHER REMINGTON Portfolio Specialist

ANDREW SLIMMON Senior Portfolio Manager and Head of Applied Equity Advisors

**STEVEN TURNER** 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.  $\ensuremath{\textbf{Bloomberg}}$  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 Fledgling 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 "junk") 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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