

# **Quarterly Reference Guide**

**Fourth Quarter 2025** 

# **Agenda**

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# **About Orion**

# Orion's Mission: "We are building a wealth-tech community where every advisor and investor thrives."







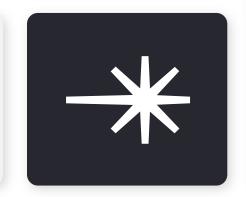




## **Orion's Scale**

**7.5M** 

Technology Accounts





\$102.7B

Wealth Management Assets



2,400

Independent Advisory Firms

114,000

Redtail Users

\$5.2T

Platform Assets



We are building a wealth-tech community where every advisor and investor thrives.

<sup>\*</sup>As of 6/30/25

## **Investment Strategy Team**

The Investment Strategy team serves financial advisors, investors, and Orion stakeholders through thoughtful investment education, timely market content, and one-on-one consultations. We strive to achieve our key objectives of keeping clients invested, diversified, and disciplined by building resilient portfolios crafted to withstand any market cycle.



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# Investment Strategy Thought Leadership Website

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These addresses will reach our entire team and can be used to ask questions or help with various requests including:

- Portfolio Construction
  - Strategy Selection
- Strategy Information
- Strategy Comparisons
- Performance and Flows Data
- Ad Hoc Presentation requests
  - And more!

# **Market Review**

Third Quarter 2025

## **Market Performance**

### **Third Quarter 2025**

- US markets posted another solid quarterly return of about 8% in the third quarter, continuing to hit multiple new all-time highs.
- Volatility was more muted in Q3 relative to earlier in the year
- Gains were led by US tech stocks. The Mag 7 posted a return of about 16% just in Q3.
- Despite the US Dollar rebounding by about 1%, international equities continued their strength from prior quarters, led by emerging markets.
- The 10Y treasury yield saw less volatility and fell, pushing bond prices higher by about 2%.
- Silver and gold each posted double digit returns, pushing the broad commodity index higher by nearly 4%.

Fixed Income	10 Year	5 Year	3 Year	1 Year	YTD	6 Month	3 Month	Max Drawdown*
Cash Equivalent Morningstar Cash Index	2.1%	3.1%	4.9%	4.5%	3.3%	2.2%	1.1%	0.0%
U.S. Bonds Bloomberg U.S. Agg Bond Index	1.8%	-0.4%	4.9%	2.9%	6.1%	3.3%	2.0%	-6.1%
Stock Market	10 Year	5 Year	3 Year	1 Year	YTD	6 Month	3 Month	Max Drawdown*
Global Equity Market Morningstar GblMkt Large-Mid Index	11.8%	13.3%	22.9%	17.0%	18.5%	20.1%	7.6%	-9.6%
<b>Total U.S. Market</b> Morningstar U.S. Market Index	14.8%	15.8%	24.5%	17.5%	14.6%	20.1%	8.1%	-8.8%
<b>Domestic Large-Cap Equity</b> Morningstar U.S. Large Cap Index	16.1%	16.8%	27.2%	20.1%	16.3%	22.5%	9.0%	-7.9%
Domestic Small-Cap Equity Morningstar U.S. Small Cap Index	9.7%	12.3%	16.3%	9.2%	8.8%	15.8%	8.0%	-15.3%
Domestic Growth Equity Morningstar U.S. Growth Index	15.9%	12.0%	25.6%	23.2%	15.9%	27.7%	6.9%	-12.9%
<b>Domestic Value Equity</b> Morningstar U.S. Value Index	11.4%	15.7%	18.0%	10.0%	12.6%	7.8%	6.4%	-8.8%
International Equity Morningstar Gbl xU.S. Large-Mid Index	8.3%	10.3%	20.4%	15.9%	25.5%	19.9%	6.9%	-11.2%
<b>Developed International Equity</b> Morningstar DM xU.S. Large-Mid Index	8.4%	11.2%	21.5%	16.2%	25.6%	18.5%	5.6%	-11.1%
Emerging Market Equity Morningstar EM Large-Mid Index	8.5%	7.9%	17.7%	15.4%	25.2%	23.3%	9.8%	-11.4%
Diversifiers	10 Year	5 Year	3 Year	1 Year	YTD	6 Month	3 Month	Max Drawdown*
Real Estate Morningstar Gbl Real Estate	4.1%	4.1%	9.2%	0.2%	11.2%	8.2%	3.3%	-16.7%
Commodities Bloomberg Commodity Index	4.0%	11.5%	2.8%	8.9%	9.4%	0.5%	3.6%	-13.5%
<b>Liquid Alternatives</b> Wilshire Liquid Alternatives Index	2.7%	3.9%	6.1%	3.8%	5.7%	4.9%	2.9%	-2.4%

#### **Return Barometer U.S. Equity Sectors U.S. Equity Style Box Return Chart** 3rd Quarter YTD Value Core Growth Sector Basic Materials 2.6% 8.1% Large ■3rd Quarter Communication Svc. 9.5% 23.4% 6.2% 4.6% 6.7% ■ YTD Cons. Discretionary 10.4% 7.6% -2.5% 1.7% Cons. Staples 6.3% 6.9% Energy Financial Svc. 3.2% 12.7% Mid 6.7% 4.8% 2.5% 3.7% 2.6% Healthcare 5.0% 18.3% Industrials 2.5% 6.0% Real Estate Small 11.5% 21.9% Technology 7.2% 8.1% 8.5% 7.5% 17.7% Utilities U.S. Equity Market 8.1% 14.2%

Global Equity Regions						
Region	3rd Quarter	YTD		Return Chart	Secto	
United States	8.1%	14.2%			U.S. 0	
International Equity	6.7%	26.7%	■3rd Quarter		U.S. 7	
International Developed	4.6%	25.9%	■YTD		U.S. H	
Emerging Markets	10.6%	27.8%			U.S. N	
China	19.6%	41.2%			U.S. 0	
Canada	9.4%	26.5%			MBS	
Japan	7.6%	21.7%			Ex-U.	
United Kingdom	5.9%	26.4%			Globa	
Global Equity Market	7.6%	18.7%			Cash	

Fixed Income							
Sector	3rd Quarter	YTD					
U.S. Corporates	2.0%	6.1%					
U.S. Treasuries	1.5%	5.4%					
U.S. High Yield	2.5%	7.2%					
U.S. Municipal	3.0%	2.6%					
U.S. Credit	2.6%	6.9%					
MBS	2.4%	6.7%					
Ex-U.S. Bonds	0.6%	2.4%					
Global Credit	2.0%	9.4%					
Cash	1.1%	3.2%					

Global Equity Factors								
Factor	3rd Quarter	YTD	Return Chart					
Momentum	7.1%	22.0%	- 2nd Overter					
Quality	6.4%	12.9%	── ■3rd Quarter — ■YTD					
Size	8.1%	16.6%						
Minimum Volatility	1.1%	10.5%						
Value	6.1%	17.7%						
Growth	9.0%	19.1%						

	Alternatives and Real Assets								
	Asset	3rd Quarter	YTD						
	Liquid Alts	2.9%	5.7%						
	Commodities	3.6%	9.4%						
	Gold	16.4%	44.8%						
	Real Estate	2.5%	6.0%						
	U.S. Dollar	0.9%	-9.9%						
Ì	Bitcoin	6.1%	21.5%						

# **GDP & Inflation**

## U.S. Market Historical Inflation Probabilities

- As of August, CPI inflation was 2.9%
- Since 1871, headline inflation has been between 2% and 3% about 15% of the time.
- When the Consumer Price Index (CPI) is between 2% and 3%, the average inflation rate has been 2.5%.
- When headline inflation is between 2% and 3%, corporate earnings growth has averaged about 23.9%.
- While inflation evidently has a negative influence on real growth, earnings growth is still positive. Long-term average earnings are only negative in deflationary periods.

#### **Headline Inflation Probabilities**

Year-Over- Year Inflation	Probability of Occurrence	Average Inflation	Average Earnings Growth
Deflation	22%	-5.2%	-7.2%
0% to 2%	22%	1.1%	13.4%
2% to 3%	15%	2.5%	23.9%
3% to 4%	11%	3.5%	9.2%
4% to 5%	6%	4.5%	10.9%
5% to 7%	8%	6.0%	9.6%
7+%	15%	11.7%	11.9%
Average		2.3%	9.2%

## **U.S. Market Historical GDP Probabilities**

- As of the second quarter of 2025, Real GDP growth was 3.8%
- Since 1948, Quarterly Real GDP Growth has been between 3% and 4% about 16% of the time, averaging 3.4% in these instances.
- When Real GDP is between 3% and 4%, corporate earnings growth has averaged around 19.3%
- Current earnings projections for CY 2025 are for about 11% earnings growth.

#### **US. Real GDP Probabilities**

Year-Over-Year Real GDP Growth	Probability of Occurrence	Average Real GDP Growth	Average Earnings Growth
Less than 0%	11%	-1.7%	-12.1%
0% to 2%	16%	1.2%	17.2%
2% to 3%	21%	2.5%	18.5%
3% to 4%	16%	3.4%	19.3%
4% to 5%	16%	4.4%	19.7%
5% to 7%	13%	5.9%	13.6%
7+%	6%	8.8%	16.8%
Average		3.1%	14.5%

# The Equity Market

## The Building Blocks of Return

## **Equity Investments Get Their Returns From Three Sources**

### **Yield**

Since 1871, the average dividend yield is 4.2%, which is higher than the current dividend yield of about 1.2%.



# Growth of Earnings

Nominally, the current expected earnings growth for 2025 is 10.9%, which outpaces the long-term average (since 1871) of 4.2%. The average earnings growth over the last ten years has been 8.9%.



# **Changes in Valuations**

Changes in valuations have contributed 0.5% to returns per year since 1871. However, the current CAPE ratio is 39x compared to the long-term average of 18x.

## **Capital Market Assumptions**

### **Industry Projections for the Next 10 Years**

Below are the 10-year annualized capital market assumptions from major investment companies. Notably, all six of these companies are projecting poor U.S. large cap equity performance relative to other asset classes and history.

Long-term projections tend to rely heavily on valuations. While they have little effect on short-term performance, valuations have explained 71% of the variations in the forward 10-year returns of the S&P 500 since 1971. Current U.S. large cap valuations are extremely high, implying below average forward returns.

Firm Name	U.S. Large Cap	U.S. Small Cap	International Equities	Emerging Markets Equities	U.S. Corporate Bonds	U.S. High Yield Bonds	U.S. Treasury Bonds	REITs
BlackRock	5.2%	4.1%	7.4%	7.8%	4.2%	5.9%	3.9%	7.0%
JP Morgan	6.7%	7.0%	8.0%	7.5%	5.0%	6.1%	3.8%	8.0%
State Street	6.4%	6.9%	6.8%	7.4%	4.4%	5.0%	4.2%	5.8%
Vanguard	4.1%	6.0%	6.1%	4.1%	4.5%	5.2%	4.3%	4.0%
Invesco	5.0%	7.8%	6.9%	9.1%	5.5%	6.2%	4.9%	7.4%
Research Affiliates	3.2%	7.4%	8.0%	8.0%	5.0%	4.9%	4.5%	6.3%
Average Forecast	5.1%	6.5%	7.2%	7.3%	4.8%	5.6%	4.3%	6.4%
Last 10 Years Total Return	15.3%	9.8%	8.2%	8.0%	1.8%	6.2%	1.2%	6.6%

### **Equity Market Since 1871**

- While equity returns are volatile in the short term, holding equities for a full 12month cycle has resulted in positive returns 72% of the time since 1871.
- Over a longer time horizon of 10 years, the historical probability of positive returns is 97%.

Range of Returns	1 Year	3 Year	5 Year	10 Year
Greater than 20%	30%	15%	9%	0.4%
10% to 20%	22%	35%	40%	39%
5% to 10%	10%	19%	21%	40%
0% to 5%	10%	16%	20%	17%
-5% to 0%	9%	9%	7%	3%
-10% to -5%	7%	4%	2%	0%
Less than -10%	12%	3%	2%	0%

\*Shaded regions indicate current return buckets

### **Equity Market by Valuation Quintile – P/E**

- This table shows next-12-months return probabilities for a given market valuation level, measured by P/E.
- A common misconception is that high market valuations result in negative forward returns. Although Q5 exhibits the lowest average forward returns, it still averages a nominal return of 7.5% with an overall 70% probability of positive return.
- The current trailing-twelve-month P/E ratio of the S&P 500 is 27, well within the highest quintile of historical P/E.

Quintiles Since 1871	Q1 – Lowest	Q2	Q3	Q4	Q5 - Highest
Greater than 20%	38%	35%	34%	23%	22%
10% to 20%	24%	15%	17%	28%	27%
5% to 10%	10%	6%	12%	10%	13%
0% to 5%	9%	12%	9%	11%	8%
Less than 0%	20%	31%	28%	28%	30%
Average Return	15.2%	11.8%	11.9%	8.2%	7.5%

13.62: Q3: 13.62-16.43: Q4: 16.43-19.33. Q5: 19.33+

### **Equity Market by Valuation Quintile – CAPE**

- A valid alternative to the P/E ratio for valuation is the CAPE Ratio, which uses a company's average inflation-adjusted earnings over a 10-year period to smooth out some of the impacts of short-term earnings volatility.
- A common misconception is that high market valuations result in negative forward returns. In contrast, the periods with the highest CAPE's still average a nominal return of 9.2% with an overall 74% probability of positive return.
- The current CAPE Ratio is 39, well within the highest quintile of historical CAPE ratios

Quintiles Since 1871	Q1 – Lowest	Q2	Q3	Q4	Q5 - Highest
Greater than 20%	47%	35%	23%	22%	26%
10% to 20%	22%	16%	19%	26%	29%
5% to 10%	6%	10%	10%	12%	13%
0% to 5%	6%	12%	11%	11%	7%
Less than 0%	18%	26%	37%	29%	26%
Average Return	18.8%	13.1%	6.9%	6.9%	9.2%

## **Equity Market by Investor Sentiment Quintile – AAII Sentiment Survey**

- This table shows historical data since 1988 to show the probabilities of the forward 12-month return of the stock market at different levels of investor sentiment.
- Interestingly, the stock market is most likely to produce a negative return over the twelve months following the most bullish investor sentiment, while the most bearish periods have the highest probability to see returns above 20% the following year.
- The average Bull-Bear spread in the first quarter was -3.0%, falling in the second quintile.

Quintiles Since 1988	Q1 – Most Bearish	Q2	Q3	Q4	Q5 – Most Bullish
Greater than 20%	36%	29%	19%	23%	19%
10% to 20%	28%	30%	35%	33%	26%
5% to 10%	8%	16%	16%	18%	19%
0% to 5%	8%	8%	12%	9%	12%
Less than 0%	20%	17%	19%	17%	25%
Average Return	11.9%	12.0%	9.3%	10.7%	6.4%

## 2025 S&P 500 Index Value Possibilities

The table below illustrates the potential S&P 500 price levels based on operating earnings per share (EPS) and valuation multiples (price-to-earnings ratio). For context, the S&P 500 closed 2024 at 5,882 and Q2 of 2025 at 6,205.

According to FactSet, the current bottoms-up operating EPS projection for the next 12 months is approximately \$295, implying an expected earnings growth rate of roughly 11%, and the current forward P/E of the S&P 500 is 22. For comparison, the average annual growth rate over the past 10 years has been about 9%, and the historical average since 1871 is 4%. The average forward P/E ratio over the last 10 years has been about 18.

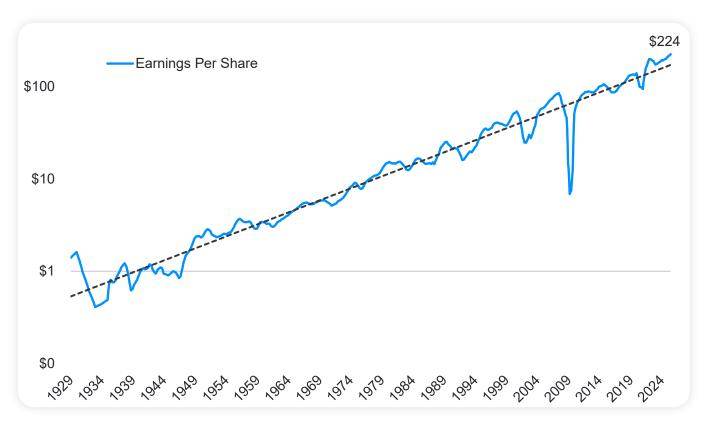
Example, if the S&P has operating earnings growth of \$295 per share and ends the period with a P/E of 22, the S&P would end at 6,490. This would be a price return of -3% over the next 12 months.

		S&P 500 Forward 12-Month P/E Ratio							
		19	20	21	22	23	24	25	26
EPS	\$275	5,225	5,500	5,775	6,050	6,325	6,600	6,875	7,150
	\$280	5,320	5,600	5,880	6,160	6,440	6,720	7,000	7,280
lont	\$285	5,415	5,700	5,985	6,270	6,555	6,840	7,125	7,410
12-Month	\$290	5,510	5,800	6,090	6,380	6,670	6,960	7,250	7,540
Next '	\$295	5,605	5,900	6,195	6,490	6,785	7,080	7,375	7,670
Ž	\$300	5,700	6,000	6,300	6,600	6,900	7,200	7,500	7,800
Index,	\$305	5,795	6,100	6,405	6,710	7,015	7,320	7,625	7,930
500 lı	\$310	5,890	6,200	6,510	6,820	7,130	7,440	7,750	8,060
	\$315	5,985	6,300	6,615	6,930	7,245	7,560	7,875	8,190
S&P	\$320	6,080	6,400	6,720	7,040	7,360	7,680	8,000	8,320

# **U.S. Earnings Growth**

- From 1929 1990, earnings grew at a compound annual growth rate of 4.8%.
- From 1990 to today, earnings have grown much more quickly at a compound annual growth rate of 6.6%.
- Analysts are expecting earnings growth of about 10.9% for the S&P 500 in 2025\*

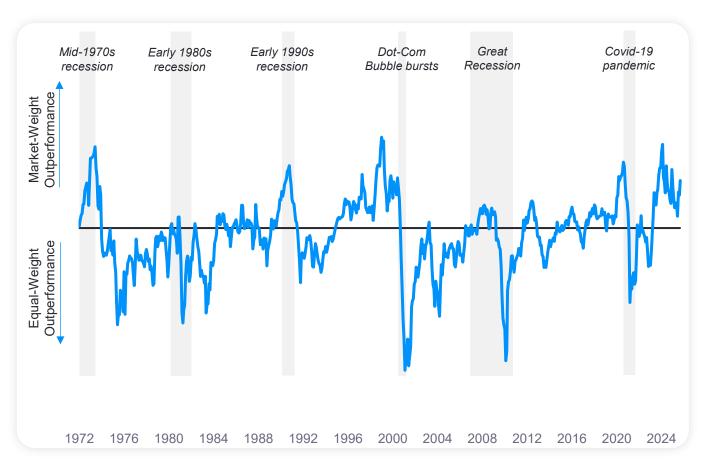
#### **S&P 500 Earnings Growth**



## **U.S. Market Concentration**

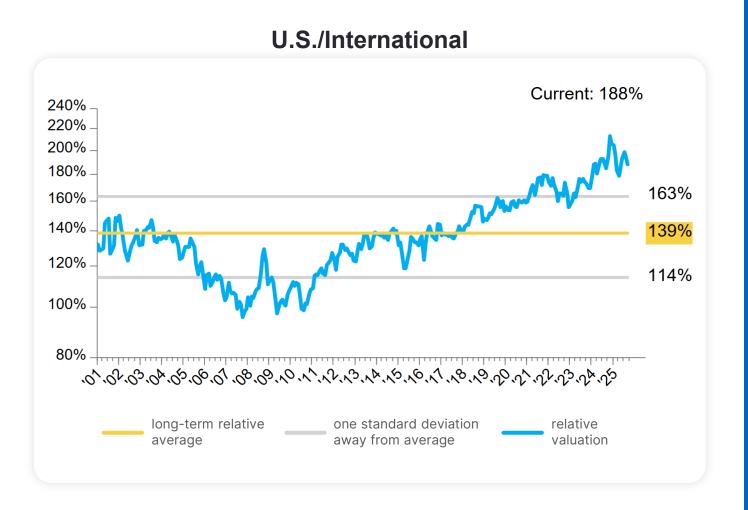
- The S&P 500 is currently outperforming its equal-weight counterpart by 8%, down from its recent high of 17% outperformance in February 2024.
- High market concentration, when only a few stocks drive market movements, can cause a divergence between the two indexes.
- Historically, the return relationship between the two indexes is mean reverting within a few years of extreme disparity. A diversified equity allocation can help investors be prepared when reversions take place.

#### Market-Weighted S&P 500 Minus Equal-Weight S&P 500



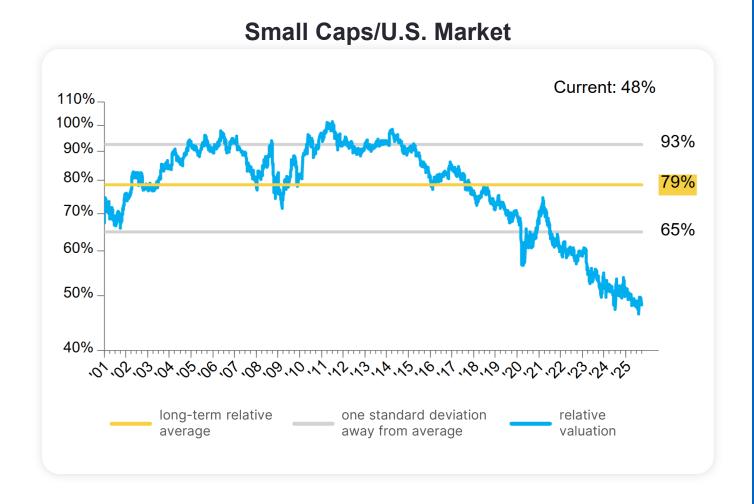
## **U.S. Valuations Not on Sale**

- Since the beginning of the century, US stocks have traded at about a 39% premium to international stocks.
- Currently, US stocks are trading at an 88% premium to the international market.
- This greater valuation discrepancy presents an opportunity for enhanced diversification.



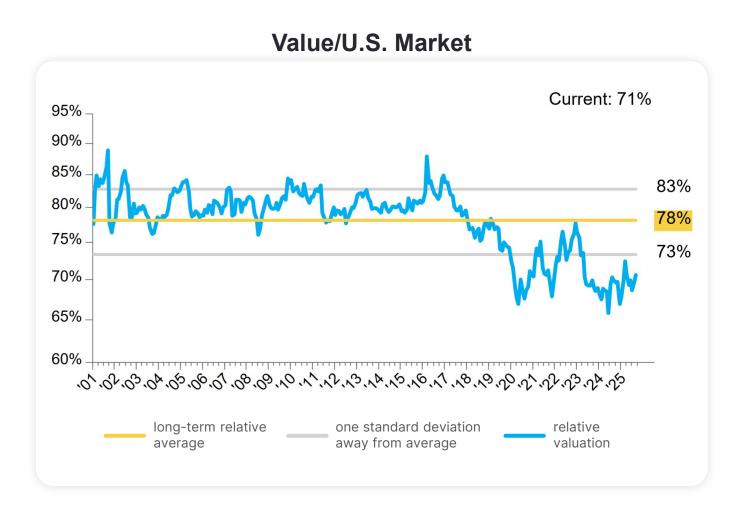
## Relative Valuations: Small Cap Stocks

- Since the beginning of the century, small cap stocks have traded at about a 21% discount to the US market.
- Currently, small cap stocks are trading at about a 52% discount to the overall US Market.
- This lower valuation level presents an opportunity for enhanced diversification.



## **Relative Valuations: Value Stocks**

- Since the beginning of the century, value stocks have traded at about a 22% discount to the US market.
- Currently, value stocks are trading at about a 29% discount to the US market.
- This lower valuation level presents an opportunity for enhanced diversification.



# The Bond Market

#### **Bond Market Since 1926**

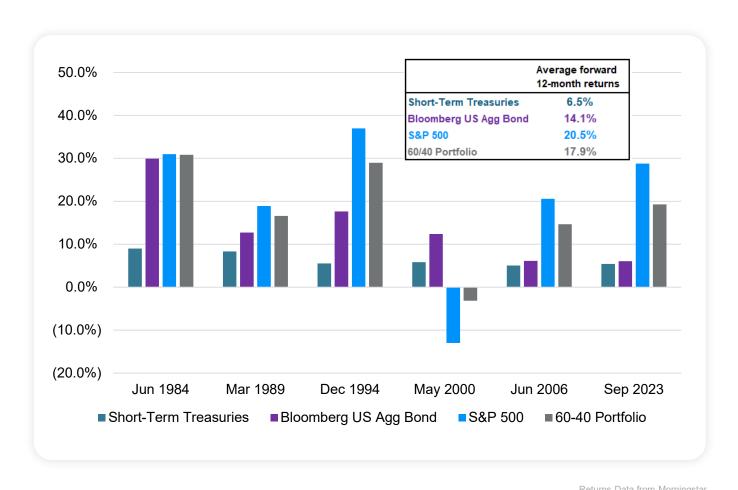
- Bonds are not immune to bear markets, but holding bonds for a full year has historically resulted in positive returns 85% of the time.
- Since 1972, bonds have not produced a negative return over any 10-year time frame.
- The yield on U.S. Aggregate Bonds is currently 4.4%, and the U.S. 10 Year Treasury Bond's is 4.0%. Starting yields have historically correlated with forward returns.

Range of Returns	1 Year	3 Year	5 Year	10 Year
Greater than 10%	26%	19%	18%	22%
7% to 10%	17%	22%	25%	29%
3% to 7%	27%	39%	38%	35%
0% to 3%	15%	15%	14%	14%
-3% to 0%	10%	3%	4%	0%
-5% to -3%	3%	2%	0%	0%
Less than -5%	2%	1%	0%	0%

\*Shaded regions indicate current return buckets

## **Stock and Bond Markets Following Peak Short-Term Treasury Rates**

- History has shown that U.S. stock and bond markets have tended to outperform cash and short-term investments in the subsequent 12 months following a peak in short-term Treasury rates.
- As rates begin to fall, stocks and bonds have both tended to benefit. The traditional 60/40 portfolio has averaged just under 18% in the 12 months following a treasury rate peak.
- This chart suggests the importance of staying invested throughout market cycles to participate in market uptrends across asset classes.

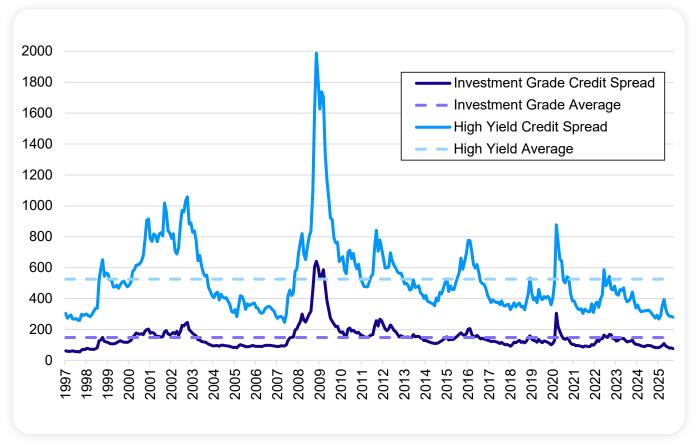


## **U.S. Bond Valuations**

## **A Look at Credit Spreads**

- Credit spreads measure how much an investor is getting paid for holding the credit risk of a fixed income security. The spread is the difference between the yield on a risky bond and that of a Treasury bond of the same maturity.
- When credit spreads are tight, investors are compensated less for holding risky bonds (i.e., the bond is expensive), and when spreads are wide investors are compensated more (the bond is cheap).
- Credit spreads are currently significantly tighter than average, nearing century lows.

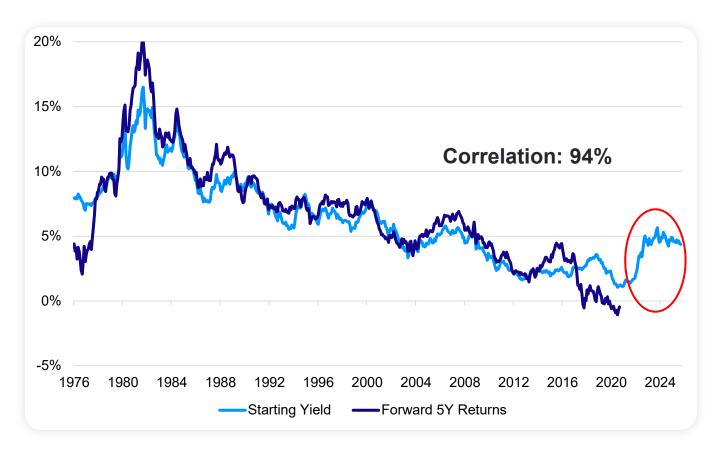
#### **Option-Adjusted Spreads Over Treasuries (bps)**



## **Starting Bond Yields**

- U.S. bond yields are the highest they've been since the mid 2000s.
   As of September 30, the Bloomberg Aggregate Index was yielding 4.4%.
- Our analysis found that there is a 94% historical correlation between the U.S. Aggregate Bond Index's starting yield and subsequent 5year returns.
- Elevated yields may indicate a good entry point into the bond market.

#### **Starting Bond Yield & Forward 5Y Returns**



# **Bridging the Behavior Gap**

## **Orion Behavioral Finance Resources**



#### **Orion Behavioral Finance Website**

The home of Orion's Behavioral Finance materials and access to content from Orion's Chief Behavioral Officer, Dr. Daniel Crosby



#### **Standard Deviations Podcast**

Weekly podcast on applied behavioral finance hosted by Orion's Chief Behavioral Officer, Dr. Daniel Crosby



#### **Orion Advisor Academy**

Free CE resource with a behavioral finance tilt; includes ethics courses and all credits necessary for two years of CE.



#### **PulseCheck**

BeFi tool that allows advisors to monitor a client's personal wellness and fulfillment right alongside their financial wellness



#### BeFi20

Brief (under 3 minute) assessment of financial personality; can be taken solo or with a loved one, allows for deep customization.

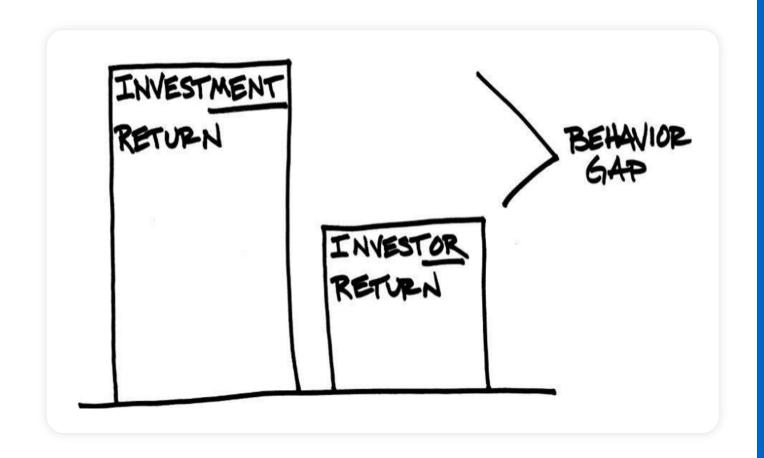


#### **3D Risk Tolerance Questionnaire**

RTQ that measures behavioral tendencies alongside more traditional risk metrics.

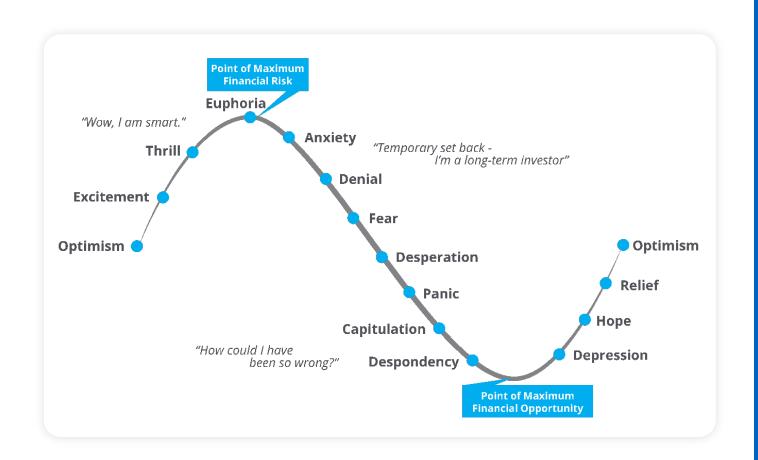
## **Bridging the Behavior Gap**

- The behavior gap represents the difference between investment and investor returns as a result of human behavior and emotion.
- Professional money management can help prevent emotion-driven investing and performance chasing, which can help lessen this gap.



## **Reducing Investor Emotion**

- Research has shown that most investors do not invest optimally on their own due to a severe cycle of emotions with their investments.
- Professional money managers can help investors identify points of risk and opportunity and avoid making costly investment mistakes that are based on emotion.



## Value Added by Investment Advisors, Vanguard

Though much of an advisor's added value may seem intangible, research shows that advisors can potentially add up to 3.0% in net returns as a result of their services. Fortunately, when advisors work with Orion Portfolio Solutions (OPS), they receive peace of mind knowing that OPS is addressing these key factors toward achieving optimal portfolio returns.

Advisor Behavior	Potential Value Added
Behavioral coaching	Up to 2.0%
Investment selection	Up to 1.0%
Rebalancing	0.12%
Asset location	Up to 0.6%
Tax-efficient retirement strategy	Up to 1.0%
Tax-loss harvesting	Up to 1.5%
Total Potential Value Added	Up to or exceeding 3.0%

## Value of an Advisor Study, Russell Investments

An alternate piece of research shows that the value added by advisors is potentially higher, approaching 5.0% in returns as a result of their services.

#### Note the consistency between these two studies:

Behavioral Coaching provides a significant amount of value, both in terms of return and investor discipline.

Advisor Behavior	Potential Value Added
Active Rebalancing of Investment Portfolios	Average of 0.3%
Behavioral Coaching	Average of 2.5%
Customized Client Experience, Planning & Product Alignment	Average of 1.1%
Tax-Smart Planning & Investing	Average of 1.0%

# **Professional Money Management**

### **Adding Value with more than Asset Allocation**

- This collection of studies paints a powerful picture...
- The value of financial advice comes more from behavioral aspects of investing than investment fundamentals like asset allocation, product allocation or rebalancing.
- Behavioral coaching is consistently deemed a high relative value-add across industry studies.



## **Focus On What You Can Control**

- Investors can control a lot.
- How much they save, the amount they spend, when they want to pay taxes, and the types of investments they select (expensive or cheap).
- However, investors tend to focus on market returns. Returns are important, but out of the control of the investor.
- Focus on what you can control.



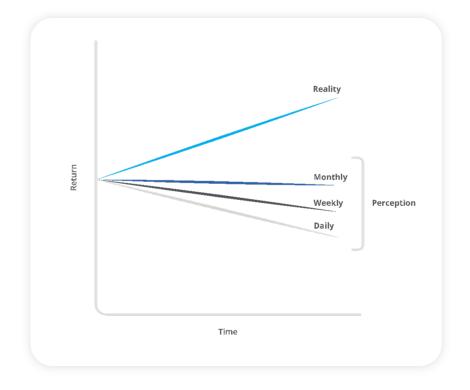
# **Reality Versus Perception**

#### **Investment Performance Over Time**

In behavioral finance, there is an emotional experience known as "prospect theory," which states that losses hurt more than gains of the same amount. In other words, investors are more loss averse than risk averse. In fact, they may take on more risk to recoup some of their losses, hold onto losers too long, or get out of the market altogether – generally making bad investing choices. But, as the table below shows, it is important to focus on the long term, as staying invested tends to be rewarding.

#### The key points the table makes are:

 The more investors look at their accounts, the worse their emotional investor experience will be and the more disruptive and volatile their performance is perceived to be.

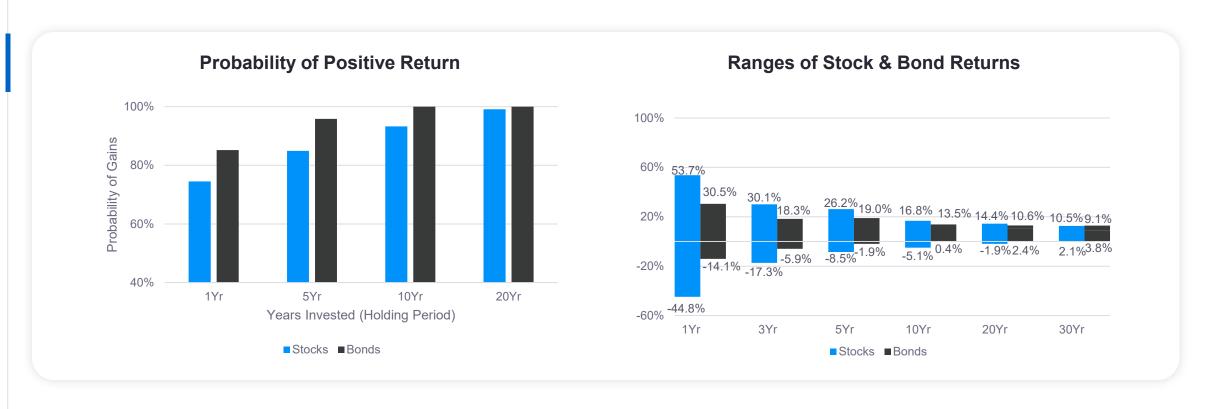


S&P 500 Percent of Positive Return (Since 1950)										
Return Frequency	Daily	Weekly	Monthly	Quarterly	Yearly	3-Year	5-Year	10-Year	20-Year	30-Year
% Positive	53%	57%	62%	66%	74%	86%	85%	93%	99%	100%

## Time and Dispersion of Returns

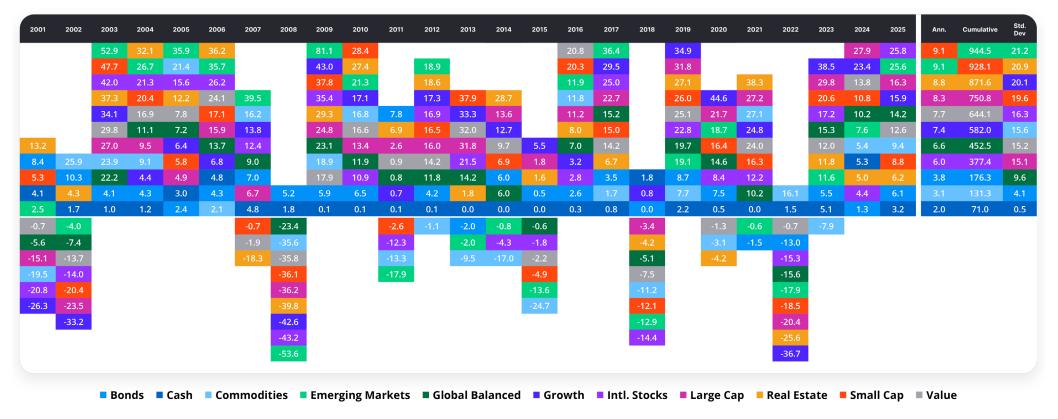
#### **Stocks and Bonds**

The dispersion of stock and bond returns can vary given the time horizon an investor has to invest. Stock and bond returns can be wide-ranging in a one-year time frame. However, the longer an investor stays invested, the less volatile the range of stock and bond returns is likely to be and the higher the probability of a positive return.



# **Balanced Portfolios May Help Smooth Returns**

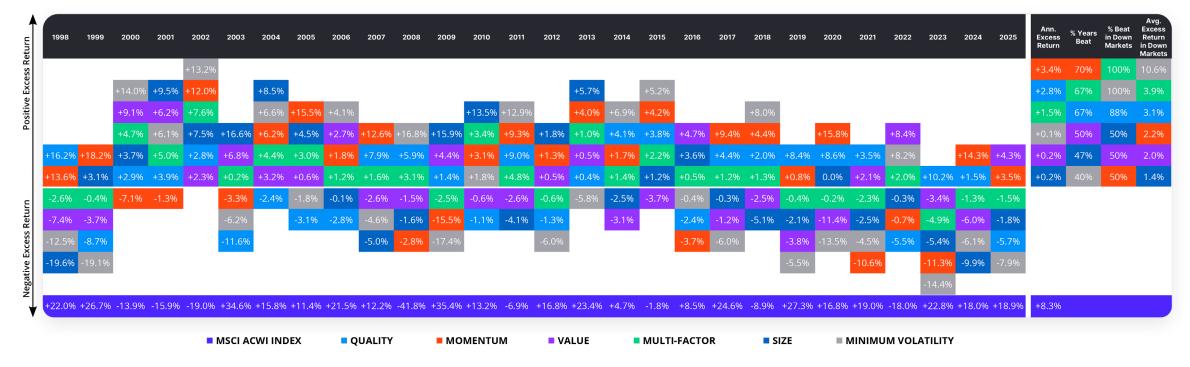
Take a look at the extreme highs and lows of emerging markets over this time period, as compared to the much smoother returns for a global, balanced portfolio. Having exposure to a variety of asset classes may counteract a significant drop in any one asset class and may provide a smoother ride for investors. Staying invested long-term has historically helped smooth out returns.



# Factors May Deliver More Diversified Risk-Adjusted Returns

Factor investing, like all kinds of investing, has a cyclical nature. But despite the cyclical nature, factor investing usually wins in calendar year performance returns. Factor investing has the potential to do well in all environments, but particularly so in down markets. We believe that a strategic emphasis on factor investing may help to add value over time. In addition, diversification among the factors in a multi-factor approach may provide smoother returns over time.

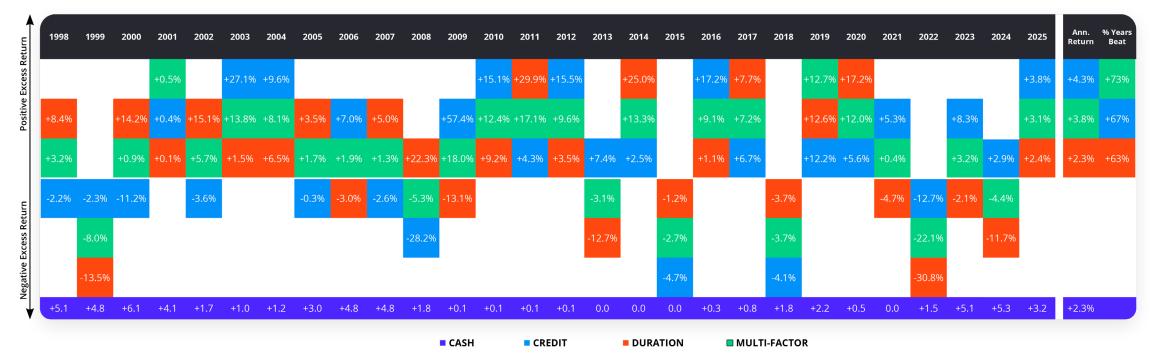
#### **Excess Returns vs. MSCI ACWI**



# Factors May Deliver More Diversified Risk-Adjusted Returns

Similar to equity factors, cyclicality is present in the performance of fixed income factors. The key point is that factor returns have historically shown a strong positive bias. Credit and duration have typically outperformed cash on a calendar year basis, and the probability of outperformance has generally increased historically when combining both factors in a portfolio.

#### **Excess Returns vs. Cash**



# **Retirement: The Magic Number**

Are you saving enough for retirement? There is no magic number, however, this is a helpful guide to address this question.

#### **How to Use**

**Household income** is assumed to be gross income (before taxes and savings). **Go to the intersection** of your current age and your closest current household income. This is the amount you should have saved by today.

Example: For a 40-year-old with a household income of \$100,000, your current savings should be \$200,000.

#### **Annual Gross Savings**

5.0% for \$30-90k

10.0% for \$100-300k

Pre-retirement investment portfolio

60/40 diversified

Post retirement investment portfolio

40/60 diversified

Inflation rate

2.5%

Years in retirement

35 years starting at age 65

Household Income	\$60,000	\$70,000	\$80,000	\$90,000	\$100,000	\$125,000	\$150,000	\$175,000	\$200,000	\$250,000	\$300,000
At this Age:	At this Age: To maintain an equivalent lifestyle in retirement, you should have this amount saved by these milestones (in thousands of \$).										
35	95k	115k	135k	155k	110k	130k	145k	160k	175k	225k	330k
40	135	165	195	220	200	240	275	305	340	435	600
45	190	225	265	300	305	375	435	485	540	685	920
50	235	280	330	375	415	505	590	665	745	940	1,240
55	305	360	420	480	565	690	805	910	1,025	1,295	1,690
60	375	445	520	590	725	890	1,045	1,185	1,330	1,680	2,180
65	445	525	615	700	890	1,090	1,280	1,455	1,640	2,070	2,670

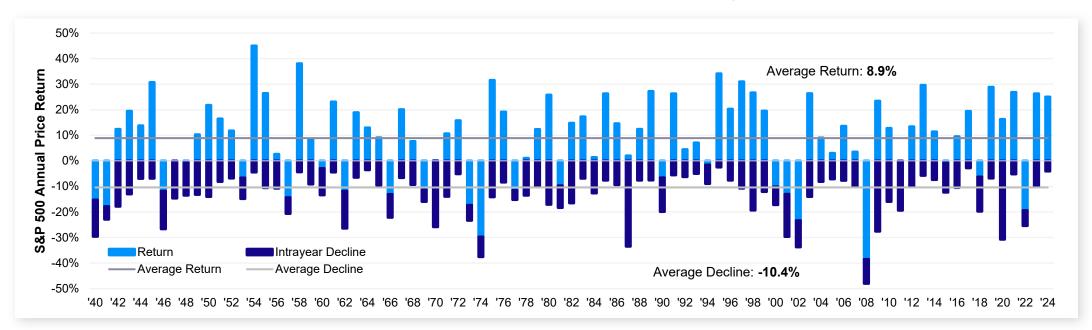
# **Bull and Bear Markets**

# **Professional Money Management**

### **Helping Investors Stay Invested**

Professional money managers can help investors stay disciplined. This chart shows the importance of staying invested to participate in market gains and remain focused on long-term goals. For example, in 2020, the market low during the year was -30.8%; however, the market ended the year up 16.3%. Investors who exited the market during the lows would have locked in their losses and missed out on a large upside gain.

#### **S&P 500 Annual Return, with Market Low During Year**

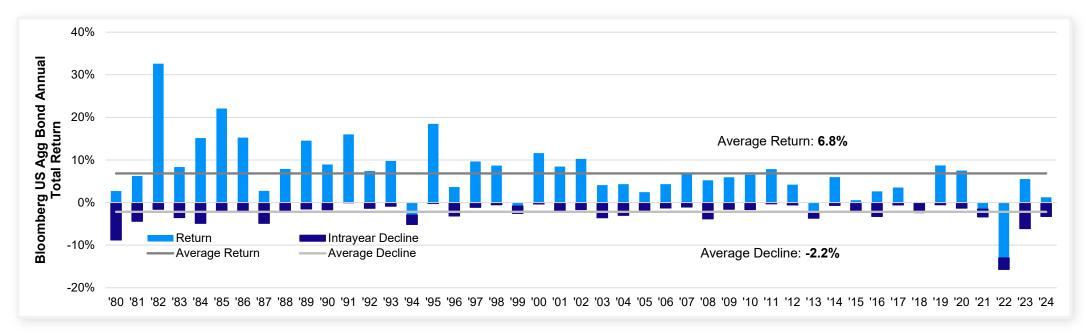


# **Professional Money Management**

### **Helping Investors Stay Invested**

Even in the historically less volatile bond market, bear markets can and have occurred over time. Professional money management can help investors stay invested and diversified throughout cycles in the bond market to target portfolio diversification benefits and participation in uptrends.

#### Bloomberg US Agg Bond Annual Return, with Market Low During Year



## **History of Bull and Bear Markets**

As of the end of the second quarter, the current bull market was about two and a half years old and had returned about 61%. Markets generally move up slower than they drop, but the "up" periods are overwhelmingly longer and stronger than those that are "down." This further reinforces the benefits of staying invested for the long term.

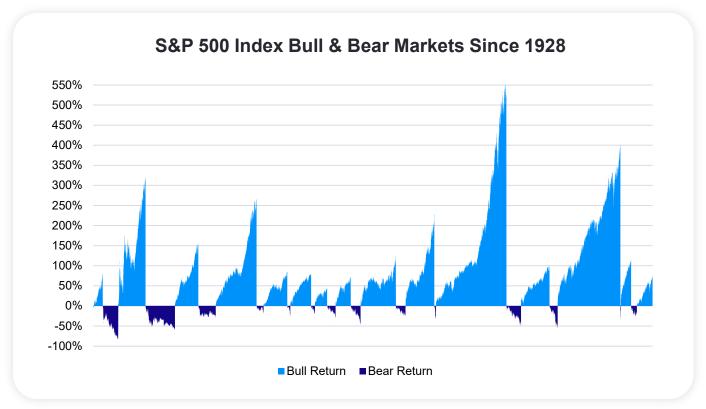
#### **Average Bull Market**

5.1 Years

**Average Bull Market Cumulative Return** 180%

**Average Bear Market Length** 1.7 Years

**Average Bear Market Cumulative Loss** -39%



## Stocks vs. Bonds Performance in Bear Markets

- Bear markets are a natural outcome of a stock market. While on average stocks were down roughly 35.0%, bonds were up 4.6%.
- Diversifying across asset classes may provide investors with a smoother ride through all stages of the market cycle.

Start Date	End Date	Length in Months	US Stock Market Returns	Intermediate- Term Treasury Returns
1929-9	1929-11	3	-33.1%	3.4%
1930-4	1932-6	27	-79.6%	6.0%
1932-9	1933-2	6	-29.8%	2.1%
1937-3	1938-3	13	-50.0%	3.1%
1939-10	1940-5	8	-25.7%	3.9%
1941-9	1942-4	8	-22.4%	0.5%
1946-6	1946-11	6	-21.8%	0.3%
1962-1	1962-6	6	-22.3%	2.5%
1968-12	1970-6	19	-29.3%	2.6%
1973-1	1974-9	21	-42.6%	4.9%
1987-9	1987-11	3	-29.5%	2.4%
2000-9	2002-9	25	-44.7%	27.5%
2007-11	2009-2	16	-51.0%	15.6%
2020-2	2020-3	1	-19.6%	5.1%
2022-1	2022-10	9	-23.9%	-10.7%
Averages		12	-35.0%	4.6%

## For Long Term Investors

### It's Always a Good Time to Invest

This chart compares an S&P 500 portfolio with a cash portfolio, in which an investor made a \$1 contribution at the peak price point every year. Did the investments fare better than simply putting money in the bank? Yes, investing generated significantly higher returns than cash over the full time period, even through three brutal bear market declines!

#### **Further:**

Investing at the "worst" day each year would have produced an annualized return of about 10.2%, while staying in cash would have returned around 1.8% per year.

The market has not had historically good returns this century, including two market crashes of over 50.0% and one of the worst economic downturns in history. However, a long-term investor still beat the bank.

#### **Growth of \$1 Contribution at Each Year's Peak Price**

		-
Year	S&P 500	Cash
1999	\$1.00	\$1.00
2000	\$1.78	\$2.06
2001	\$2.41	\$3.14
2002	\$2.64	\$4.20
2003	\$4.40	\$5.24
2004	\$5.88	\$6.31
2005	\$7.15	\$7.50
2006	\$9.27	\$8.85
2007	\$10.72	\$10.28
2008	\$7.39	\$11.46
2009	\$10.33	\$12.48
2010	\$12.88	\$13.49
2011	\$14.09	\$14.50
2012	\$17.33	\$15.51
2013	\$23.94	\$16.52
2014	\$28.20	\$17.53
2015	\$29.56	\$18.53
2016	\$34.09	\$19.58
2017	\$42.52	\$20.74
2018	\$41.52	\$22.12
2019	\$55.59	\$23.61
2020	\$66.81	\$24.73
2021	\$86.99	\$31.94
2022	\$72.05	\$26.93
2023	\$91.98	\$29.32
2024	\$115.96	\$31.87
Rate of Return	10.2%	1.8%

Source: Morningstar as of 12/31/2024

# 97 Reasons Why People Did Not Invest

### There Are Plenty of Excuses For Not Investing in the Stock Market

Despite all the events listed below, \$10,000 invested in large company stocks in January of 1928 would have growth to over \$3.4 million by the end of the second quarter. It's easy to find reasons not to invest in the stock market.

1929 Stock Market Crash

1930 Unemployment Soars

**1931** 16.3% Unemployment

**1932** 24.1% Unemployment

1933 Hitler Becomes German Chancellor

1934 Dust Storms Damage 300M Acres

1935 Nazis Enact Nuremberg Laws

1936 Spanish Civil War Begins

1937 Hindenburg Disaster

1938 War Clouds Gather

1939 World War II Begins

1940 France Falls

1941 Pearl Harbor, U.S. Enters WWII

1942 Wartime Price Controls

1943 Income Tax Introduced

1944 Battle of the Bulge

1945 U.S. Bombs Japan

1946 Work Stoppages in Coal and Steel

1947 Cold War Begins

1948 Soviet Blockade of Berlin

1949 Russia Explodes Atomic Bomb

1950 Korean War Begins

1951 Presidential Term Limit Ratified

1952 U.S. Detonates First H-Bomb

1953 Russia Explodes H-Bomb

1954 First Atomic Submarine Launched

1955 Eisenhower Illness

1956 Suez Crisis

1957 Russia Launches Sputnik

1958 Marines Sent to Lebanon

1959 Castro Seizes Power in Cuba

1960 Russia Downs U-2 Plane

1961 Berlin Wall Erected

1962 Cuban Missile Crisis

**1963** Kennedy Assassinated

1964 China Detonates Atomic Bomb

1965 Troops Arrive in Vietnam

1966 Draft Protests

1967 Arafat Becomes PLO Leader

1968 Martin Luther King, Jr Assassinated

1969 Money Tightens - Market Falls

1970 Cambodia Invaded - Vietnam War Spreads

1971 Anti-war Protest in Washington

1972 Watergate Scandal

1973 Oil Crisis

1974 Watergate - Nixon Resigns

1975 Attempted Assassination of President Ford

**1976** High Unemployment

1977 Market Slumps

1978 Record High Interest Rates

1979 Three Mile Island

1980 Mount St. Helens Erupts

1981 AIDS is Identified

1982 Worst Recession in 40 Years

1983 Market Hits New Highs

1984 Record Federal Deficits

1985 Famine in Ethiopia

1986 Chernobyl Nuclear Accident

1987 Stocks Drop on Black Monday

1988 Pan Am 103 is Bombed Over Scotland

**1989** Savings and Loan Crisis

1990 Persian Gulf Crisis

**1991** Operation Desert Storm

1992 Los Angeles Riots

1993 World Trade Center Bombed

1994 Fed Raises Interest Rates Six Times

1995 U.S. Troops to Bosnia

1996 Whitewater Scandal

**1997** Hong Kong Reverts to China

1998 President Clinton Impeached

**1999** Y2K Scare

2000 Technology Bubble Burst

2001 Terrorist Attacks on America

2002 Corporate Accounting Scandals

2003 War in Iraq

2004 Tsunami in Asia

2005 Oil Prices Increase

2006 Interest Rates Rise

2007 Sub-Prime Mortgage Crisis

2008 Worst Market Conditions Since the 1930s

**2009** General Motors Declares Bankruptcy

2010 PIIGS Crisis in Europe

2011 European Debt Crisis

2012 Financial Woes in Greece

2013 Federal Reserve Begins to Taper

2014 Oil Prices Collapse

2015 China Slowdown

**2016** Brexit

2017 High Stock Valuations

2018 Trade tensions between U.S. and China

2019 Inverted U.S. Treasury Yield Curve

2020 COVID-19 Pandemic

2021 Meme Stock Craze

2022 Highest Inflation since 1980s

2023 Global Banking Sector Turmoil

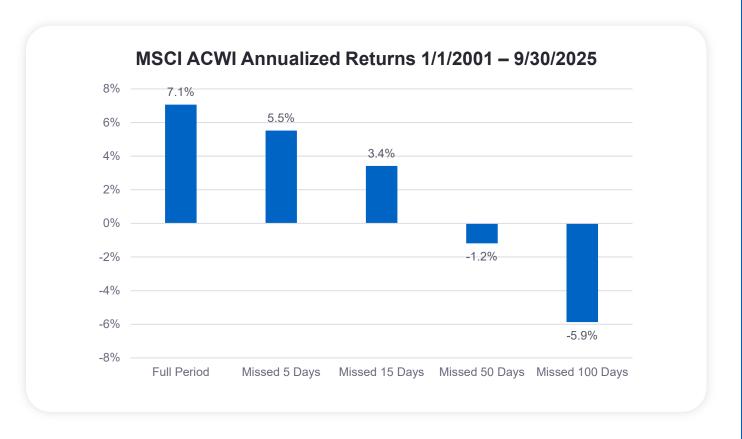
2024 Wars in Ukraine and Middle East

2025 Trump Tariffs/Global Trade War Uncertainty

## For Long Term Investors

### It's Always a Good Time to Invest

- If an investor stayed invested the entire 24-year period shown in the chart to the right, they would have achieved a return of about 7.1% per year.
- If they tried to market time and missed the best 5 days, then their return would drop to about 5.5%.
- If they missed the best 15 days, then they would be up around 3.4% – barely outpacing inflation.
- What's tough about market timing is knowing that some of the best days of the market occur within weeks of the worst days.

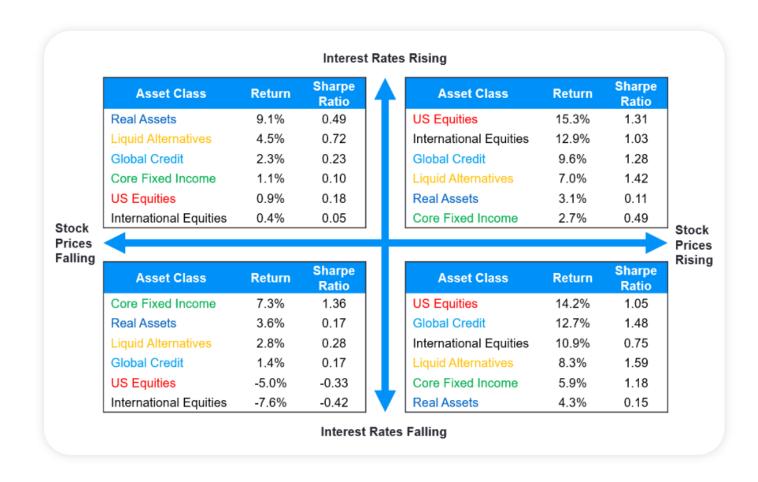


Source: Morningstar as of 9/30/2025

# **All-Seasons Investing**

# **All-Seasons Investing: Interest Rates**

- All-Seasons Investing is the idea that each asset class reacts differently to various market cycles and trends, and so, through disciplined asset allocation, an all-seasons investor may capture strong returns while mitigating downside risk.
- In the first quarter, stocks were falling, and short-term interest rates were steady.
- When markets are operating efficiently, riskier investments like equities and global credit have performed well since 1999, but in times of heightened volatility, diversifiers like core fixed income and inflation hedges like real assets and alternatives have strongly outperformed equities.



Risk and return metrics are rolling, trailing 12 months. Return data from Morningstar. Yields data from the Federal Reserve Bank of St. Louis.

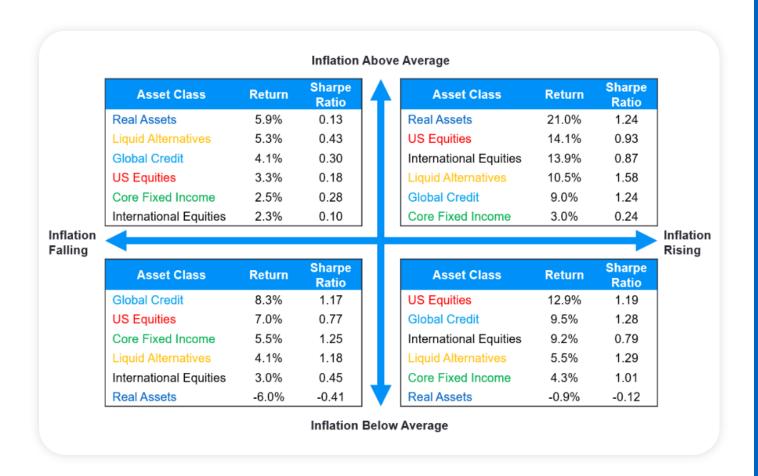
Monthly data spans from 1/1/1999-9/30/2025.

Benchmarks used: US Equities: Russell 3000 TR USD; Int'l Equities: MSCI ACWI Ex USA GR USD; Core Fixed Income: Bloomberg US Agg Bond TR USD; Liquid Alternatives: Credit Suisse Hedge Fund USD; Global Credit: 50% Bloomberg High Yield Corporate TR USD + 50% Bloomberg EM Ex US

Agg TR USD: Real Assets: Bloomberg Commodity TR

# **All-Seasons Investing: Inflation**

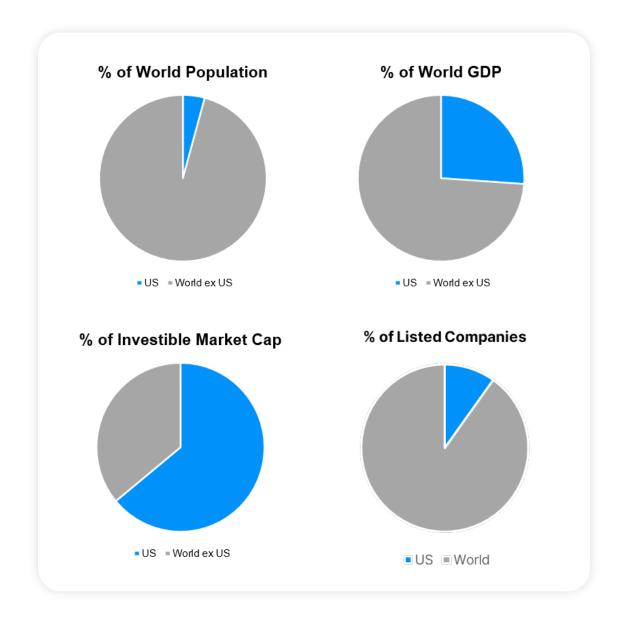
- Looking instead at inflation levels and trends, the All-Seasons Investing thesis again has merit.
- In the first quarter, inflation was about average and falling.
- Real Assets and Liquid Alternatives have proved to be effective inflation hedges since 1999, while global credit and core fixed income have both benefitted from times of falling inflation.



# Why Global Equities?

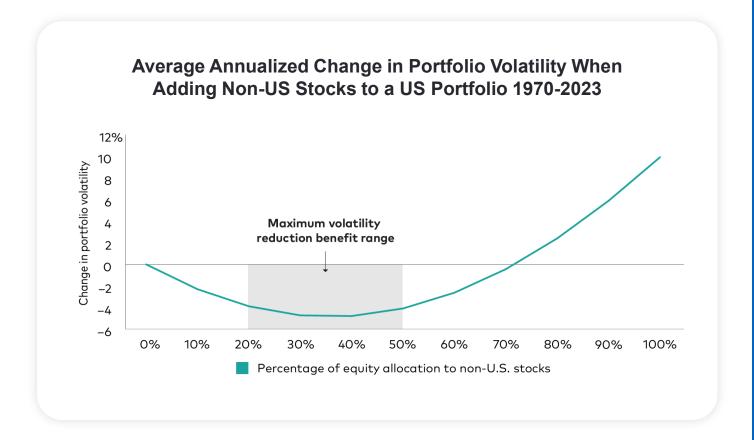
# A Larger Investment Opportunity Set

- While the US dominates the global market cap, making up 64% of investible market cap, non-US dominates GDP. The US only accounts for 26% of world GDP.
- US stocks only make up 10% of the listed companies in the world.
- The US also only makes up 4% of the global population and is growing at a much slower rate than other areas of the world.
- Larger investment opportunity set = more opportunities to enhance returns.



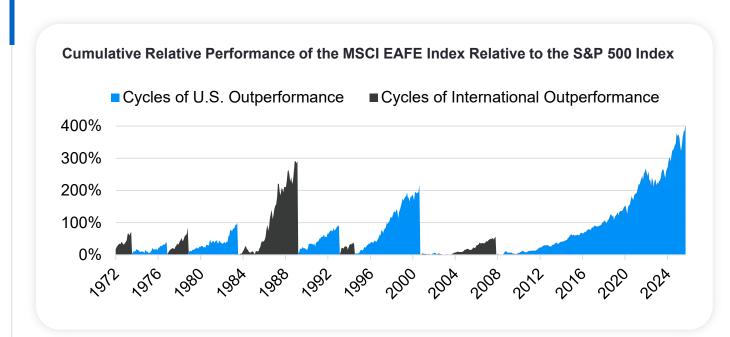
# Why International? It Helps Reduce Risk

- Since 1970, maximum risk reduction benefits are gained from an international allocation between 20% and 50%.
- In addition, it's likely the trend toward more globalization peaked a few years ago, which in turn means we expect that correlations between economies and markets will decrease.
- Falling correlations would even further increase the diversification benefits of an allocation to international equities.



## **Reversion to the Mean**

U.S. market returns versus those of international markets tend to be cyclical in nature. The current cycle length of U.S. outperformance is the longest since 1970 and it's more than double the historic average of 82 months. The 367.3% outperformance is more than the historic performance average of 162.1%. Due to the stretched period of U.S. outperformance, there is a higher likelihood of a reversal in performance in favor of international markets due to the historic tendency of reversion to the mean.



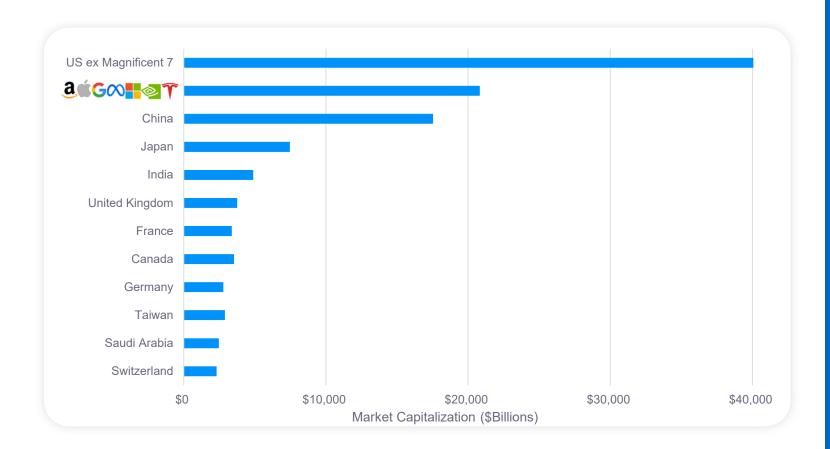
Cycles of International Outperformance						
Start Date	End Date	# of Months	Performance			
1971	1973	31	71.0%			
1976	1978	24	85.0%			
1983	1989	68	292.0%			
1993	1994	17	39.0%			
2000	2007	86	57.0%			
Ave	rage	45	108.8%			

Cycles of U.S. Outperformance							
Start Date	End Date	# of Months	Performance				
1973	1976	40	39.0%				
1978	1983	57	98.0%				
1989	1993	47	91.0%				
1994	2000	74	215.0%				
2007	Present	215	403.6%				
Ave	rage	87	169.3%				

## The US Stock Market is Concentrated

### **Potential Catalyst for Relative Performance Change**

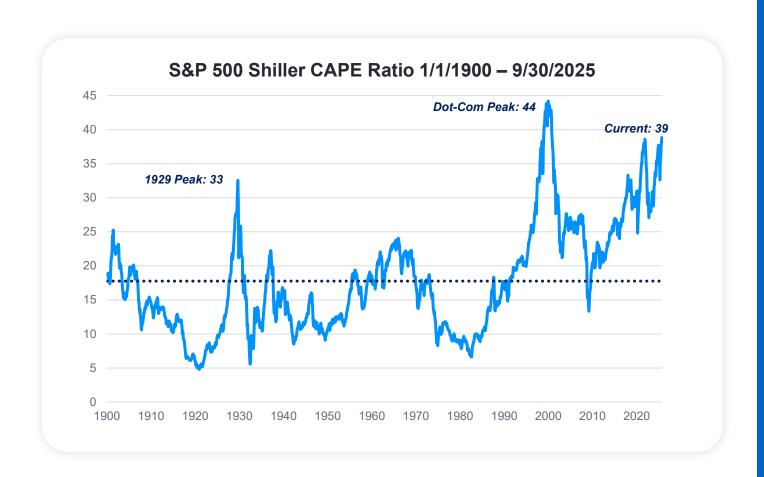
- The "Magnificent Seven" stocks in total have a higher market cap than every country in the world except the US.
- The Magnificent Seven is worth more than the 3<sup>rd</sup> through 6<sup>th</sup> countries combined: Japan, India, the U.K., and France.



# The US Stock Market is Expensive

### **Potential Catalyst for Relative Performance Change**

- The US stock market is expensive compared to history on a variety of valuation metrics, including the CAPE Ratio.
- The current CAPE Ratio is 39, which falls in the 98th percentile of valuations going back to 1900.
- Outside of recent years, the US stock market has only been this expensive once – in the late 1990s at the peak of the Dot-Com Bubble.
- Despite valuations expanding this year (despite rising interest rates), valuations appear to have peaked.



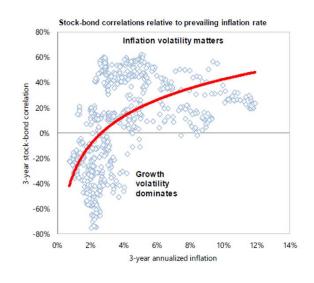
# \* Why Real Assets?

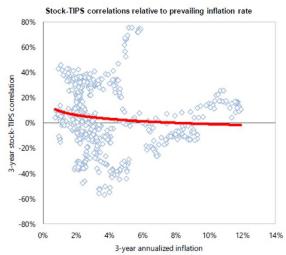
## Why Real Assets Now?

- Stocks and Bonds are typically thought to have relatively low correlations to each other, providing strong diversification benefits in a strictly stock and bond portfolio.
- Inflation affects stocks and bonds similarly, as rising interest rates diminish existing bond value while also stifling growth for equities, pushing up the correlation between them.
- A rising correlation between stocks and bonds raises a need for a new diversifier in portfolios – an area in which real assets fit nicely as both a diversifier and an inflation hedge.

#### High inflation often leads to higher stock/bond correlations

To maintain diversification amid high inflation, investors may need to consider re-allocating portfolios and potentially consider including real assets

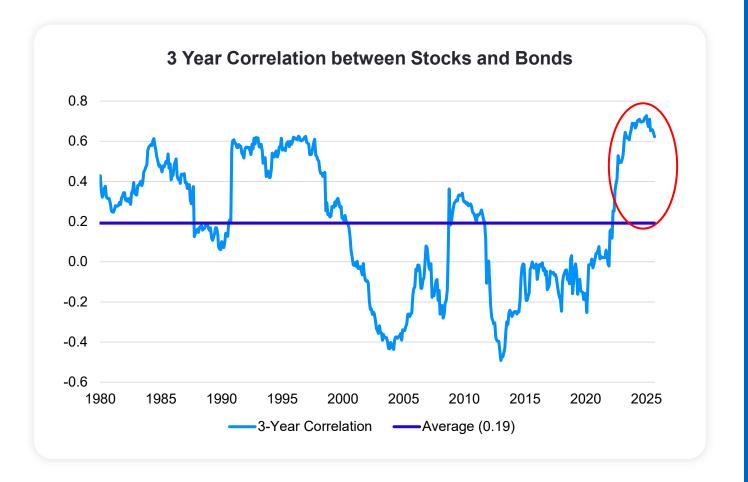




63 Source: PIMCO

# Why Real Assets Now?

- In recent years, stocks and bonds have been the most highly correlated they've been since 1995 due to recent inflation.
- In 2022, the traditional 60% equity, 40% bond portfolio lost 16% - one of its worst years ever
- This higher correlation creates space for real assets to function as both diversifiers and an inflation hedge.



## **Real Assets**

#### **Diversification**

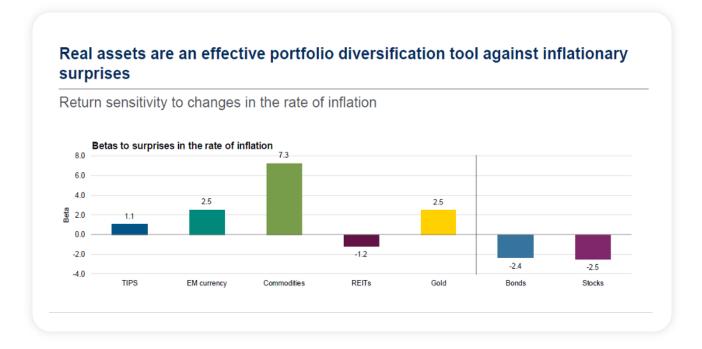
- This chart shows the 10-year correlations between stocks, bonds, and real assets.
- Real assets generally have lower correlation with traditional stocks and bonds, and even diversification benefits amongst real asset sub-sectors

Asset Class	US Stocks	US Bonds	Precious Metals	Natural Resources	Commodities	Infrastructure	Global Real Estate
US Stocks	1.00	0.39	0.26	0.72	0.40	0.76	0.81
US Bonds	0.39	1.00	0.43	0.21	-0.03	0.45	0.59
Precious Metals	0.26	0.43	1.00	0.48	0.25	0.47	0.42
Natural Resources	0.72	0.21	0.48	1.00	0.68	0.79	0.72
Commodities	0.40	-0.03	0.25	0.68	1.00	0.53	0.41
Infrastructure	0.76	0.45	0.47	0.79	0.53	1.00	0.88
Global Real Estate	0.81	0.59	0.42	0.72	0.41	0.88	1.00

## **Real Assets**

#### **Inflation Hedging**

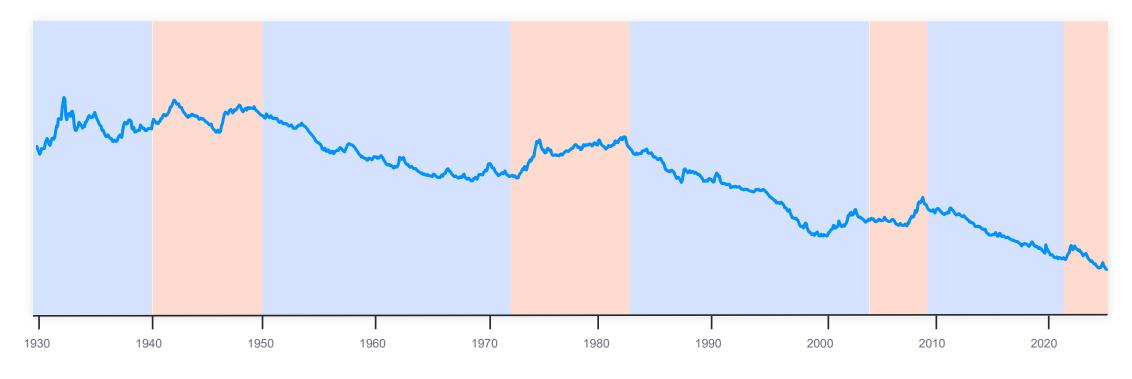
- This chart measures the return sensitivity of different asset classes to changes in the rate of inflation.
- Real assets have historically performed well in times of rising inflation and are a common inflation hedge in many portfolios. Many real asset groups have high betas to unexpected inflation.
- Important to note from this information is the nearly identical negative beta to inflationary surprises that stocks and bonds share.
- Real assets also strongly outperform TIPS during inflationary surprises. Many investors tend to default to TIPS as their only inflation hedge, but real assets have a track record of further outperformance.



Source: PIMCO

## **U.S. Market Versus Commodities**

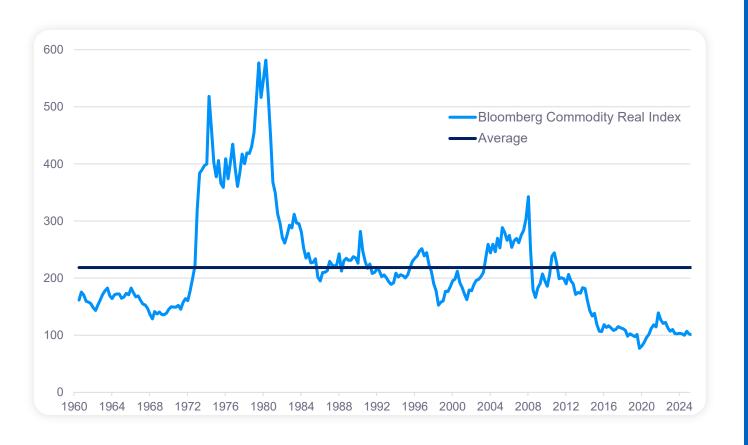
This chart shows the relative price of the S&P 500 to the price of commodities (represented by PPI). When stocks outperform commodities, the chart rises, and when commodities outperform stocks, the chart declines. As you can see, commodities tend to perform better relative to stocks during inflationary periods, denoted by the red shading. Currently, commodities are trading at an all-time low relative to stocks.



# Why Real Assets Now?

### **Commodity Valuation**

- This chart shows the inflation-adjusted value of the Bloomberg Commodity Index over time.
- Most sub-sectors of real assets are trading at discounts to the market and history. Commodities have been trading below the historical average for over a decade.



Source: Bloomberg. As of 9/30/2025

# Additional Resources

## **Resources Tailored For You**

#### **Weekly Wire**

Start every week off
right with market
perspectives and prose
penned by Tim Holland
and the Investment
Strategy Team, plus
more resources deigned
to make client
conversations a breeze



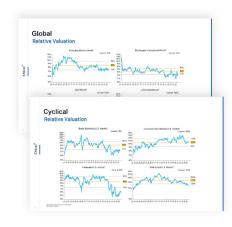
#### **Reference Guide**

A quarterly guide to help advisors and investors learn more about Orion Portfolio Solutions, understand the value of professional money management, navigate the markets, and more.



#### **Chart Pack**

The OPS Chart Pack reviews composite relative valuations from the last 20 years and they might mean for investors.



#### **Brinker Barometer**

The Brinker Capital
Stock Market Barometer
is our monthly
assessment of different
factors that impact
market performance.

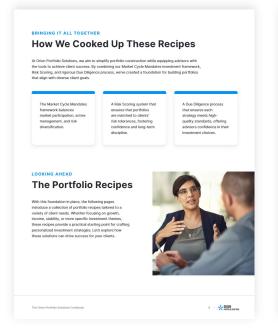


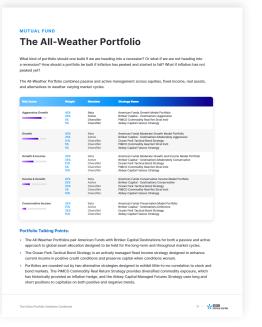
## **OPS Cookbook**

- Crafted by Orion's Investment Strategy Team, the 2025 Orion Portfolio Solutions (OPS) Cookbook serves as an introduction to our investment offerings and philosophies as well as a collection of pre-designed portfolio recipes.
- These recipes are tailored to meet diverse investment objectives and are easily implemented on the OPS platform.
- With this guide, advisors can confidently build portfolios that are both diversified and aligned with clients' unique financial objectives.









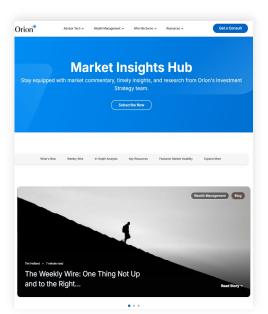
# Orion

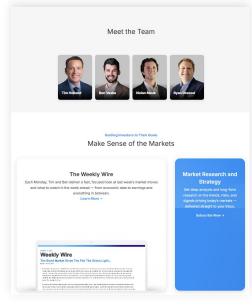
# **Orion Market Insights Hub**

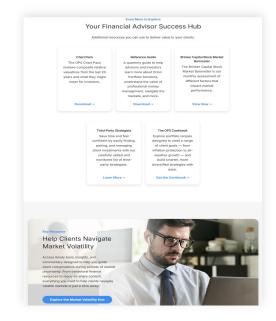
- The new Orion Market Insights Hub is the primary store of all content from the Investment Strategy Team and other Investments material.
- This site includes access to our weekly, monthly, quarterly, and annual content including blogs, presentations, chart packs, and more.

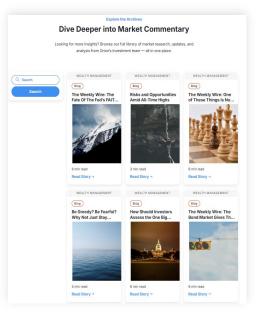


orion.com/wealth-management/market-insights









# \* Our Team

### **Investment Strategy Team**

The Investment Strategy team serves financial advisors, investors, and Orion stakeholders through thoughtful investment education, timely market content, and one-on-one consultations. We strive to achieve our key objectives of keeping clients invested, diversified, and disciplined by building resilient portfolios crafted to withstand any market cycle.



Ben Vaske, BFA
Manager, Investment Strategy
ben.vaske@orion.com



Ryan Dressel
Senior Investment Strategy
ryan.dressel@orion.com



Nolan Mauk, BFA
Investment Research Analyst
nolan.mauk@orion.com

## Investment Strategy Thought Leadership Website

#### Team Emails: opsresearch@orion.com strategists@brinkercapital.com

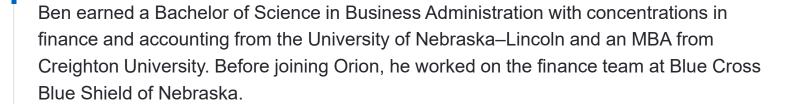
These addresses will reach our entire team and can be used to ask questions or help with various requests including:

- Portfolio Construction
- Strategy Selection
- Strategy Information
- Strategy Comparisons
- Performance and Flows Data
- Ad Hoc Presentation requests
  - And more!

### Ben Vaske, BFA

#### **Manager, Investment Strategy**

Ben Vaske manages Orion's Investment Strategy Team, which focuses on delivering macroeconomic and capital markets research, client portfolio management, and discretionary portfolio support to financial advisors seeking to streamline their investment processes.



He is a CFA Level III candidate and holds the Behavioral Financial Advisor (BFA) and the Certified in Blockchain and Digital Assets (CBDA) designations. His market commentary has been featured in publications such as The Wall Street Journal, Reuters, Forbes, Yahoo Finance, and Kiplinger.



## **Ryan Dressel**

### **Senior Investment Strategist**

Ryan Dressel is a Senior Investment Strategist at Orion Advisor Solutions. In this role, Ryan is responsible for developing, procuring, and delivering investment content for key internal and external relationships. He works closely with the Chief Investment Officer to produce independent research, generate new investment ideas, and engage with industry leaders. Additionally, Ryan serves on Orion's investment committee and as a voting member on Orion's asset allocation committee; a senior group that sets market outlook expectations and portfolio positioning decisions on a quarterly basis.

Ryan has over twelve years of industry experience and has completed progress toward the Chartered Financial Analyst (CFA) designation, as well as being registered with Orion as an Investment Advisor Representative (IAR). Prior to joining Orion, Ryan was an analyst at Brinker Capital performing due diligence on third-party investment strategies utilized on Brinker's discretionary strategic risk models. Ryan also worked as an analyst at Helmes & Company (now part of Veritas Advisory Group) and as an operations associate at Upromise Investments. Ryan received his Bachelor of Science in finance from Bentley University.



### Nolan Mauk, BFA

### **Investment Research Analyst**

Nolan Mauk currently serves as an Investment Research Analyst on the Investment Strategy team at Orion. In his role, Nolan leverages the strategies on the Orion platform to help financial advisors build resilient portfolios, seeking to provide better investment outcomes for their clients. Nolan also regularly conducts research on various financial and economic topics to provide relevant market commentary in the forms of blogs, white papers, and presentations.

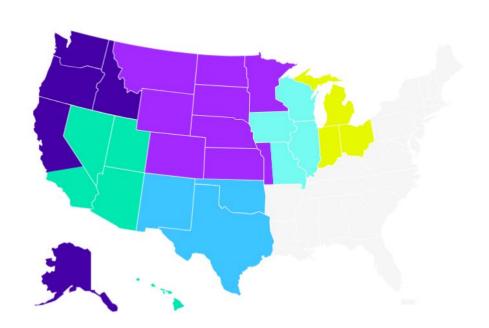
Nolan received his Bachelor of Science in Business Administration with highest distinction, with emphases in finance and economics, from the University of Nebraska-Lincoln.

Nolan is a Level III CFA Candidate and holds the Behavioral Financial Advisor (BFA) designation.



# Wealth Management Sales Map

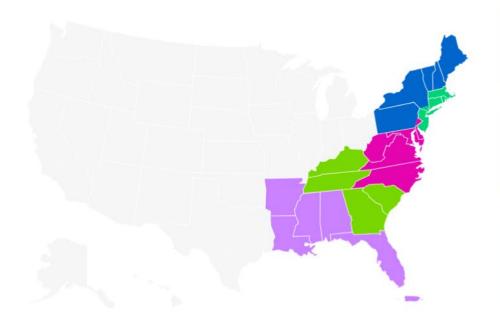
NATIONAL			
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NATIONAL AC	COUNTS		
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QUALIFIED PL	ANS		
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John Browning	Business Development Consultant	720-892-7368	john.browning@orion.com
Madelyn Mogensen	Internal Sales Consultant	833-208-4516	madelyn.mogensen@orion.com
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	, MN, W. MO, MT, NE, ND, SD, WY) Senior Advisor Consultant	610-952-7343	ben.maniscalco@orion.cor
NORTH CENTRAL (CO, KS Benjamin Maniscalco, CFP <sup>e</sup> Andrea Wilkinson		610-952-7343 402-630-2222	
Benjamin Maniscalco, CFP®	Senior Advisor Consultant		andrea.wilkinson@orion.com
Benjamin Maniscalco, CFP° Andrea Wilkinson	Senior Advisor Consultant Advisor Growth Consultant	402-630-2222	andrea.wilkinson@orion.com john.browning@orion.com
Benjamin Maniscalco, CFP° Andrea Wilkinson John Browning	Senior Advisor Consultant Advisor Growth Consultant Business Development Consultant Internal Sales Consultant	402-630-2222 720-892-7368	andrea.wilkinson@orion.com john.browning@orion.com
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Benjamin Maniscalco, CFP* Andrea Wilkinson John Browning Natalie McCarty  GREAT LAKES (IL, IA, MO,	Senior Advisor Consultant Advisor Growth Consultant Business Development Consultant Internal Sales Consultant	402-630-2222 720-892-7368 844-966-2831	andrea.wilkinson@orion.coi john.browning@orion.coi natalie.mccarty@orion.coi
Benjamin Maniscalco, CFP* Andrea Wilkinson John Browning Natalie McCarty  GREAT LAKES (IL, IA, MO, Brett Leach	Senior Advisor Consultant Advisor Growth Consultant Business Development Consultant Internal Sales Consultant  WI) Senior Advisor Consultant	402-630-2222 720-892-7368 844-966-2831 630-531-3835	ben.maniscalco@orion.cor andrea.wilkinson@orion.cor john.browning@orion.cor natalie.mccarty@orion.cor brett.leach@orion.cor marcus.ringo@orion.cor tyler.blair@orion.cor
Benjamin Maniscalco, CFP* Andrea Wilkinson John Browning Natalie McCarty  GREAT LAKES (IL, IA, MO, Brett Leach Elliot Ringo	Senior Advisor Consultant Advisor Growth Consultant Business Development Consultant Internal Sales Consultant  WI) Senior Advisor Consultant Advisor Growth Consultant	402-630-2222 720-892-7368 844-966-2831 630-531-3835 402-973-7695	andrea.wilkinson@orion.coi john.browning@orion.coi natalie.mccarty@orion.coi  brett.leach@orion.coi marcus.ringo@orion.coi tyler.blair@orion.coi
Benjamin Maniscalco, CFP* Andrea Wilkinson John Browning Natalie McCarty  GREAT LAKES (IL, IA, MO, Brett Leach Elliot Ringo Tyler Blair	Senior Advisor Consultant Advisor Growth Consultant Business Development Consultant Internal Sales Consultant  WI) Senior Advisor Consultant Advisor Growth Consultant Business Development Consultant Internal Sales Consultant	402-630-2222 720-892-7368 844-966-2831 630-531-3835 402-973-7695 303-385-7664	andrea.wilkinson@orion.coi john.browning@orion.coi natalie.mccarty@orion.coi  brett.leach@orion.coi marcus.ringo@orion.coi tyler.blair@orion.coi
Benjamin Maniscalco, CFP* Andrea Wilkinson John Browning Natalie McCarty  GREAT LAKES (IL, IA, MO, Brett Leach Elliot Ringo Tyler Blair Isabella DeSimone	Senior Advisor Consultant Advisor Growth Consultant Business Development Consultant Internal Sales Consultant  WI) Senior Advisor Consultant Advisor Growth Consultant Business Development Consultant Internal Sales Consultant	402-630-2222 720-892-7368 844-966-2831 630-531-3835 402-973-7695 303-385-7664	andrea.wilkinson@orion.coi john.browning@orion.coi natalie.mccarty@orion.coi  brett.leach@orion.coi marcus.ringo@orion.coi
Benjamin Maniscalco, CFP* Andrea Wilkinson John Browning Natalie McCarty  GREAT LAKES (IL, IA, MO, Brett Leach Elliot Ringo Tyler Blair Isabella DeSimone  OHIO VALLEY (IN, MI, OH) Chris Bosse	Senior Advisor Consultant Advisor Growth Consultant Business Development Consultant Internal Sales Consultant  WI) Senior Advisor Consultant Advisor Growth Consultant Business Development Consultant Internal Sales Consultant	402-630-2222 720-892-7368 844-966-2831 630-531-3835 402-973-7695 303-385-7664 866-897-6050	andrea.wilkinson@orion.coi john.browning@orion.coi natalie.mccarty@orion.coi  brett.leach@orion.coi marcus.ringo@orion.coi tyler.blair@orion.coi isabella.desimone@orion.coi
Benjamin Maniscalco, CFP* Andrea Wilkinson John Browning Natalie McCarty  GREAT LAKES (IL, IA, MO, Brett Leach Elliot Ringo Tyler Blair Isabella DeSimone  OHIO VALLEY (IN, MI, OH) Chris Bosse David Henry, CIMA®	Senior Advisor Consultant Advisor Growth Consultant Business Development Consultant Internal Sales Consultant  WI) Senior Advisor Consultant Advisor Growth Consultant Business Development Consultant Internal Sales Consultant	402-630-2222 720-892-7368 844-966-2831 630-531-3835 402-973-7695 303-385-7664 866-897-6050	andrea.wilkinson@orion.coi john.browning@orion.coi natalie.mccarty@orion.coi  brett.leach@orion.coi marcus.ringo@orion.coi tyler.blair@orion.coi isabella.desimone@orion.coi

# Wealth Management Sales Map

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Alyssa Seidl	VP, WMP, Hybrid Sales	920-277-9490	alyssa.seidl@orion.com
Dawn Batho	Director, Inside Sales	420-896-7240	dawn.batho@orion.com
NATIONAL AC	COUNTS		
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QUALIFIED PL	ANS		
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Anthony DiMona	Internal Sales Consultant	833-348-1622	anthony.dimona@orion.com
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Brendan Jones	Advisor Growth Consultant	410-236-4229	brendan.jones@orion.com
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Riley Coy	Internal Sales Consultant	866-753-6998	riley.coy@orion.co
SOUTHEAST (GA, KY, S	SC, TN)		
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Dan Gorman	Advisor Growth Consultant	773-706-0269	daniel.gorman@orion.cor
Kyle Hosch	<b>Business Development Consultant</b>	407-587-6750	kyle.hosch@orion.cor
Carson Scharff	Internal Sales Consultant	844-658-0269	carson.scharff@orion.com
GULF COAST (AL, AR,	FL, LA, MS, PR, VI)		
Matt Mileski	Senior Advisor Consultant	570-885-1774	matt.mileski@orion.co
Preston Suttmiller	Advisor Growth Consultant	859-426-2053	preston.suttmiller@orion.com
Kyle Hosch	Business Development Consultant	407-587-6750	kyle.hosch@orion.com
Nick Fabiano	Internal Sales Consultant	877-263-8831	nick.fabiano@orion.com

# **Glossary and Disclosures**

## **Glossary - Indexes**

An index is an unmanaged group of stocks considered to be representative of different segments of the stock market in general. You cannot invest directly in an index.

- Bloomberg Barclays Capital U.S. Aggregate Bond Index: An index used by bond funds as a benchmark to measure relative performance. This index includes government, mortgage-backed, asset-backed, and corporate securities.
- MSCI Emerging Markets Index: Seeks to track the investment results of an index composed of large- and mid-cap emerging market equities.
- Bloomberg Commodity Index: The index is made up of 22 exchange-traded futures on physical commodities and represents 20 commodities that are weighted to account for economic significance and market liquidity.
- MSCI ACWI Index (MSCI All-Countries World Index): an index considered representative of stock markets of developed and emerging markets.
- MSCI ACWI ex-U.S. Index: An index considered representative of stock markets of developed and emerging markets, excluding those of the U.S.
- MSCI EAFE Index: Measures international equity performance. It comprises the MSCI country indexes capturing large- and mid-cap equities across developed markets in Europe, Australasia, and the Far East, excluding the U.S. and Canada.
- S&P 500 Index: A stock market index based on the market capitalizations of 500 large companies having common stock listed on the NYSE or NASDAQ. This index is representative of large-cap stocks.
- Morningstar Global Market Large-Mid Index: An index that measures the
  performance of the global market's equity markets targeting the top 90% of stocks by
  market capitalization.
- Morningstar U.S. Market Index: An index that measures the performance of U.S. securities and targets 97% market capitalization coverage of the investable universe. It is a diversified broad market index.
- Morningstar U.S. Large Cap Index: An index that measures the performance of U.S. large-cap stocks. These stocks represent the largest 70% capitalization of the investable universe.

- Morningstar U.S. Small Cap Index: An index that measures the performance of U.S. small-cap stocks. These stocks fall between the 90th and 97th percentile in market capitalization of the investable universe. In aggregate, the Small Cap Index represents 7% of the investable universe.
- Morningstar Global ex U.S. Large-Mid Index: An index that measures the
  performance of Global Markets (ex-U.S.) equity markets targeting the top 90% of
  stocks by market capitalization.
- **Morningstar DM ex U.S. Large-Mid Index**: An index that measures the performance of developed markets ex-U.S. equity markets targeting the top 90% of stocks by market capitalization.
- Morningstar EM Large-Mid Index: An index that measures the performance of emerging markets targeting the top 90% of stocks by market capitalization. The Barclay's Capital U.S. Aggregate Bond® Index measures the performance of the total United States investment-grade bond market.
- Morningstar Cash Index: An index that measures the performance of a Treasury Bill with six to eight weeks until maturity in the U.S. market.
- Bloomberg Commodity Index: The index is made up of exchange-traded futures on physical commodities and represents commodities that are weighted to account for economic significance and market liquidity. This index provides investors with a means of understanding the performance of commodity futures markets and serves as a benchmark for investment performance of commodities as an asset class.
- Morningstar Gbl Real Estate NR USA Index: measures the performance of mortgage companies, property management companies, and REITs.
- Wilshire Liquid Alternative Index<sup>5M</sup>: measures the collective performance of the five Wilshire Liquid Alternative strategies that make up the Wilshire Liquid Alternative Universe.

## Glossary – Indexes (continued)

An index is an unmanaged group of stocks considered to be representative of different segments of the stock market in general. You cannot invest directly in an index.

- Russell 3000 Index: An index constituted by the 3,000 largest companies in the United States. It is commonly thought to represent the entire U.S. stock market.
- **S&P Global Gold BMI Index:** An index tracking the performance of companies classified as belonging to the gold sub-industry within the larger S&P Global BMI.
- **S&P Global Natural Resources Index:** An index tracking the performance of companies classified as belonging to the natural resources industry.
- S&P Global Infrastructure Index: An index tracking the performance of companies classified as belonging to the infrastructure industry.
- **DJ Global World Real Estate Index:** An index designed to measure the performance of publicly traded global real estate securities.

### **Glossary - Factors**

Factor investing breaks down the individual drivers of long-term return and targets investments that excel in one or more of these drivers.

#### **Equity Factors**

**Quality Factor:** The quality factor describes the profitability and financial leverage of a company, based on an equally weighted mix of trailing 12-month returns on equity and debt-to-capital ratios. A higher exposure to the quality factor indicates a higher quality of the firm.

**Value Factor:** The value factor targets stocks trading at low multiples of fundamental measures like earnings, book value, cash flow and sales.

**Volatility Factor:** The volatility factor describes the maximum-observed spread in long-term returns, based on the trailing 12-month standard deviation of daily returns. A higher exposure to the volatility factor indicates larger variation in long-run outcomes.

**Momentum Factor:** The momentum factor describes how much a stock has risen in price over the past year relative to other stocks, calculated by subtracting the trailing one-month return from the trailing 12-month return. A higher exposure to the momentum factor indicates the company has performed well recently.

**Size Factor:** The size factor describes the market capitalization of a company, based on the same measure used for the Morningstar Style Box. A higher exposure to the size factor indicates smaller market capitalization. (Though we plot large-cap exposure at the top of the size capsule to simplify the Factor Profile visual and keep all "high" or "large" indicators aligned at the top).

#### **Fixed Income Factors**

**Cash Factor:** This factor refers to holding cash and cash equivalents.

**Credit Factor:** The credit factor refers to targeting lower credit quality in the pursuit of possible higher yields.

**Duration Factor:** The duration factor refers to targeting bonds with longer maturities.

## **Glossary - Miscellaneous**

**Beta:** A measure of volatility, or systematic risk of a security or a portfolio in comparison to the market as a whole. A beta of 1 indicates that the portfolio will likely move with the market. Anything less than 1 indicates that the security or the portfolio is typically less volatile than the market.

**Cyclically Adjusted Price to Earnings Ratio (CAPE):** A valuation ratio created by Yale professor of economics Robert Shiller which divides a company's share price by the average of its inflation-adjusted earnings over the past ten years.

**Dividend Yield:** Calculated by annual dividends per share divided by price per share. This ratio indicates how much a company pays out in dividends each year relative to its share price.

**Downside Capture Ratio:** A measure of performance in down markets. The ratio is calculated by dividing the manager's returns by the returns of the index during the downmarket and multiplying that factor by 100.

Earnings Growth: The annual rate of growth of earnings from investments.

**Earnings Yield:** Calculated by earnings per share divided by price per share. This ratio shows the percentage of each dollar invested in the stock that was earned by the company.

**Exchange Traded Fund (ETF):** An exchange traded fund (ETF) is an investment fund that is priced and traded on an exchange throughout the day just like a stock. ETFs hold a basket of securities (stocks, commodities, or bonds), and most track an index.

**Price to Earnings Ratio (P/E):** A valuation ratio equated by dividing a company's share price by its earnings per share. Trailing P/E uses the previous four quarters' EPS, and Forward P/E uses expected EPS over the next four quarters.

**Standard Deviation:** A statistical measurement of volatility risk based on historical returns. This risk measure shows how much the return of the fund or security is deviating from its historical mean return. The larger the standard deviation, the more volatile the fund or security.

**Strategic Investment Style:** Sets target allocations that are long term in nature. Strategic does not mean buy-and-hold or passive. Strategic can still be active, such as making active decisions in response to changes in risk and opportunities around the world.

**Tactical Investment Style:** An unconstrained investment approach that can quickly and abruptly change its allocation and risk profile from 100% stocks to 100% cash, and vice versa. Tactical money managers try to move in and out of the market and asset classes in an attempt to time and achieve outperformance over a stated benchmark that may not be representative of their true portfolio over time.

## Return Barometer (p. 9) Indexes Used

- Basic Materials: The Materials Select Sector SPDR® ETF
- Communication Svc.: The Comm Svcs Sel Sect SPDR® ETF
- Cons. Discretionary: The Consumer Discret Sel Sect SPDR® ETF
- Cons. Staples: The Consumer Staples Sel Sect SPDR® ETF
- Energy: The Energy Select Sector SPDR® ETF
- · Financial Svc.: The Financial Select Sector SPDR® ETF
- Healthcare: The Health Care Sector SPDR® ETF
- Industrials: The Industrial Select Sector SPDR® ETF
- Real Estate Sector: The Real Estate Select Sector SPDR® ETF
- · Technology: The Technology Select Sector SPDR® ETF
- Utilities: The Utilities Select Sector® ETF
- United States: iShares Russell 3000 ETF
- International Equity: iShares MSCI ACWI ex US ETF
- · International Developed: iShares MSCI EAFE ETF
- Emerging Markets: iShares MSCI Emerging Markets ETF
- · China: iShares MSCI China ETF
- · Canada: iShares MSCI Canada ETF
- · Japan: iShares MSCI Japan ETF
- · United Kingdom: iShares MSCI United Kingdom ETF
- Momentum: MSCI ACWI Momentum NR USD
- Quality: MSCI ACWI Quality NR USD
- Size: MSCI ACWI Small NR USD
- Minimum Volatility: MSCI ACWI Minimum Vol (USD) NR USD
- · Value: MSCI ACWI Value NR USD
- · Growth: MSCI ACWI Growth NR USD
- Large Value: Morningstar US Large Value TR USD

- Large Core: Morningstar US Large Core TR USD
- Large Growth: Morningstar US Large Growth TR USD
- · Mid Value: Morningstar US Mid Value TR USD
- · Mid Core: Morningstar US Mid Core TR USD
- Mid Growth: Morningstar US Mid Growth TR USD
- · Small Value: Morningstar US Small Value TR USD
- Small Core: Morningstar US Small Core TR USD
- · Small Growth: Morningstar US Small Growth TR USD
- U.S. Corporates: Bloomberg US Agg Bond TR USD
- U.S. Treasuries: Bloomberg US Treasury TR USD (1972)
- · U.S. High Yield: Bloomberg High Yield Corporate TR USD
- · U.S. Municipal: Bloomberg Municipal TR USD
- · U.S. Credit: Bloomberg U.S. Credit TR USD
- MBS: Bloomberg US MBS Float Adjusted TR USD
- Ex-U.S. Bonds: iShares Core International Aggt Bd ETF
- Global Credit: Bloomberg Global Credit Corp TR USD
- Cash: Bloomberg US Treasury Bill 1-3 M TR USD
- · Liquid Alts: Wilshire Liquid Alternative TR USD
- Commodities: Bloomberg Commodity TR USD
- Gold: Bloomberg Sub Gold TR USD
- · Real Estate Asset Class: DJ Global World Real Estate TR USD
- · U.S. Dollar: US Dollar
- Bitcoin: iShares Bitcoin Trust ETF

### **Disclosures**

Orion Portfolio Solutions, LLC, an Orion Company, a registered investment advisor.

Orion Portfolio Solutions, LLC d/b/a Brinker Capital Investments a registered investment advisor.

Wealth Management Platform Assets include assets managed on a discretionary and non-discretionary basis by Orion Portfolio Solutions, LLC ("OPS") and TownSquare Capital, LLC ("TSC") on their proprietary platforms, assets in proprietary and third-party models made available through OPS's Communities platform, and assets in OPS's proprietary models managed on third-party platforms.

The CFA® is a globally respected, graduate-level investment credential established in 1962 and awarded by CFA Institute — the largest global association of investment professionals. To learn more about the CFA charter, visit www.cfainstitute.org.

Think2perform's Behavioral Financial Advice program integrates traditional finance practices with psychology and neuroscience to improve emotional competency and decision-making behavior that increases effective usage of the financial plan with clients. To obtain the Behavioral Financial Advisor (BFA) designation, participants must complete a self-directed course, which takes 20-30 hours to complete, includes a mix of interactive exercises, videos and case studies. To learn more about the BFA, visit https://www.think2perform.com.

The Certified in Blockchain and Digital Assets (CBDA) is a designation awarded by the Digital Assets Council of Financial Professionals (DACFP) regarding the growing fields of blockchain, cryptocurrencies, non-fungible tokens (NFTs), and other digital assets. It is designed by advisors to help financial professionals incorporate emerging blockchain and cryptocurrency assets into their practices. To earn the CBDA designation, individuals must complete an online self-study course. To learn more about the CBDA visit dacfp.com

The S&P 500 Index is an unmanaged composite of 500-large capitalization companies. This index is widely used by professional investors as a performance benchmark for large-cap stocks.

Outsourced Chief Investment Officer (OCIO) services offered through TownSquare Capital, LLC, an Orion Company, a Registered Investment Advisor. TownSquare Capital, LLC, is an affiliated company of Orion Portfolio Solutions, LLC

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