



Asset Allocation & Financial Planning

4Q 2025 Update
As of October 1, 2025

www.arrowrootfamilyoffice.com

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4Q 2025

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Market History

Performance, Major Events, Drawdowns

Historical Asset Class Returns

4Q 2025

Market Category	3Q 2025	6 Months	1 Year	3 Year	5 Year	10 Year
U.S. Large Cap Stocks	8.1%	19.7%	17.4%	24.8%	16.4%	15.2%
U.S. Large Cap Growth Stocks	10.4%	29.9%	25.2%	31.4%	17.4%	18.6%
U.S. Large Cap Value Stocks	5.3%	9.1%	9.1%	16.7%	13.7%	10.5%
U.S. Small Cap Stocks	12.4%	21.9%	10.6%	15.1%	11.4%	9.7%
Global Stocks	7.5%	19.6%	17.3%	23.2%	13.5%	12.0%
Developed Market Stocks	4.5%	16.1%	14.7%	21.9%	11.2%	8.1%
Emerging Market Stocks	10.7%	23.2%	19.0%	18.2%	6.3%	7.4%
U.S. Taxable Bonds	2.0%	3.3%	2.8%	4.9%	-0.4%	1.8%
U.S. Municipal Bonds	2.7%	2.6%	1.1%	4.2%	0.8%	2.1%
U.S. High Yield Bonds	2.1%	5.9%	6.9%	10.7%	4.8%	5.2%
REITs	3.6%	2.9%	-2.5%	8.9%	7.0%	6.1%
Commodities	3.3%	0.1%	6.2%	1.6%	13.9%	5.5%

Disclosures: All performance data represents total returns. Performance longer than 1 year are annualized. Past performance is no guarantee of future results. Asset classes are represented by the following ETFs: U.S. Large Cap (SPY - SPDR S&P 500 ETF), U.S. Large Cap Growth (IWD – Russell 1000 Growth ETF), U.S. Large Cap Value (IWF – Russell 1000 Value ETF), U.S. Small Cap (IWM - iShares Russell 2000 ETF), Global Stocks (ACWI - iShares MSCI ACWI ETF), DM Stocks (EFA - iShares MSCI EAFE ETF), EM Stocks (EEM - iShares MSCI Emerging ETF), U.S. Taxable Bonds (AGG - iShares Core U.S. Aggregate Bond ETF), U.S. Municipal Bonds (MUB - iShares National Muni Bond ETF), U.S. High Yield Bonds (HYG - iShares iBoxx \$ High Yield Corporate ETF), Commodities (DBC - Invesco DB Commodity ETF), and REITs (VNQ - Vanguard Real Estate ETF).

Annual Asset Class Performance

Emerging Market Equity (EM)Developed Market Equity (DM)High Yield (HY)Bonds (AGG)Cash (CS)REITs (RE)Commodities (CM)60/35/5 Allocation (AA)

4Q 2025

					21% SM	37% EM		31% LG						25% LG	29% EM
		19% EM			19% CM	25% DM		29% RE					26% LG	11% SM	25% DM
		18% DM			13% HY	22% LG		25% SM	20% SM				18% DM	9% AA	15% LG
		17% RE			12% LG	14% SM		22% DM	18% LG	41% CM			17% SM	8% HY	13% AA
		17% SM	38% SM	30% RE		11% EM	14% AA	19% AA	17% EM	40% RE			14% AA	7% EM	10% SM
		16% LG	32% LG	13% LG		8% RE	6% HY	18% EM	10% AA	29% LG			11% RE	5% CS	7% HY
	8% RE	12% AA	21% DM	6% AGG		8% AA	5% CM	14% HY	7% AGG	15% SM			11% HY	5% RE	6% AGG
	8% AGG	11% HY	14% AA	5% SM	2% RE	2% AGG	5% RE	12% CM	7% DM	14% AA			9% EM	4% DM	6% RE
	6% HY	4% AGG	6% HY	4% AA	1% LG	1% DM	4% AGG	8% AGG	4% HY	11% DM	19% CM	6% AGG	2% CM	5% CM	
	2% LG	4% CM	2% RE	2% HY	0% AGG	0% CS	1% CS	2% CS	0% CS	4% HY	1% CS	5% CS	1% AGG	3% CS	

2011

2012

2013

2014

2015

2016

2017

2018

2019

2020

2021

2022

2023

2024

2025 YTD

Disclosures: All performance data represents total return for the stated period. Past performance is no guarantee of future results. Asset classes are represented as follows: Emerging Market Equity (EEM - iShares MSCI Emerging Markets ETF), Commodities (DBC - Invesco DB Commodity Index Tracking ETF), DM Equity (EFA - iShares MSCI EAFE ETF), REITs (VNQ - Vanguard Real Estate ETF), Large Caps (SPY - SPDR S&P 500 ETF), Small Caps (IWM - iShares Russell 2000 ETF), High Yield (HYG - iShares iBoxx \$ High Yield Corporate Bond ETF), Cash (BIL - SPDR Bloomberg Barclays 1-3 Month T-Bill ETF), Bonds (AGG - iShares Core U.S. Aggregate Bond ETF). The "60/35/5" portfolio is for illustrative purposes only and assumes the following weights: 25% Large Caps, 15% Developed Markets, 10% Small Caps, 5% Emerging Markets, 5% REITs, 25% Bonds, 5% High Yield, 5% Cash, and 5% Commodities.

0% CS	0% CS	0% CS	0% CS	0% CS		2% HY			5% RE	0% CS	1% HY	6% CM
0% AA		2% AGG	4% EM	15% DM		4% LG			8% CM	2% AGG	13% AGG	
-3% CM			-4% EM	-6% DM	-2% AA		-6% AA			-4% EM	-14% AA	

measures at end of presentation

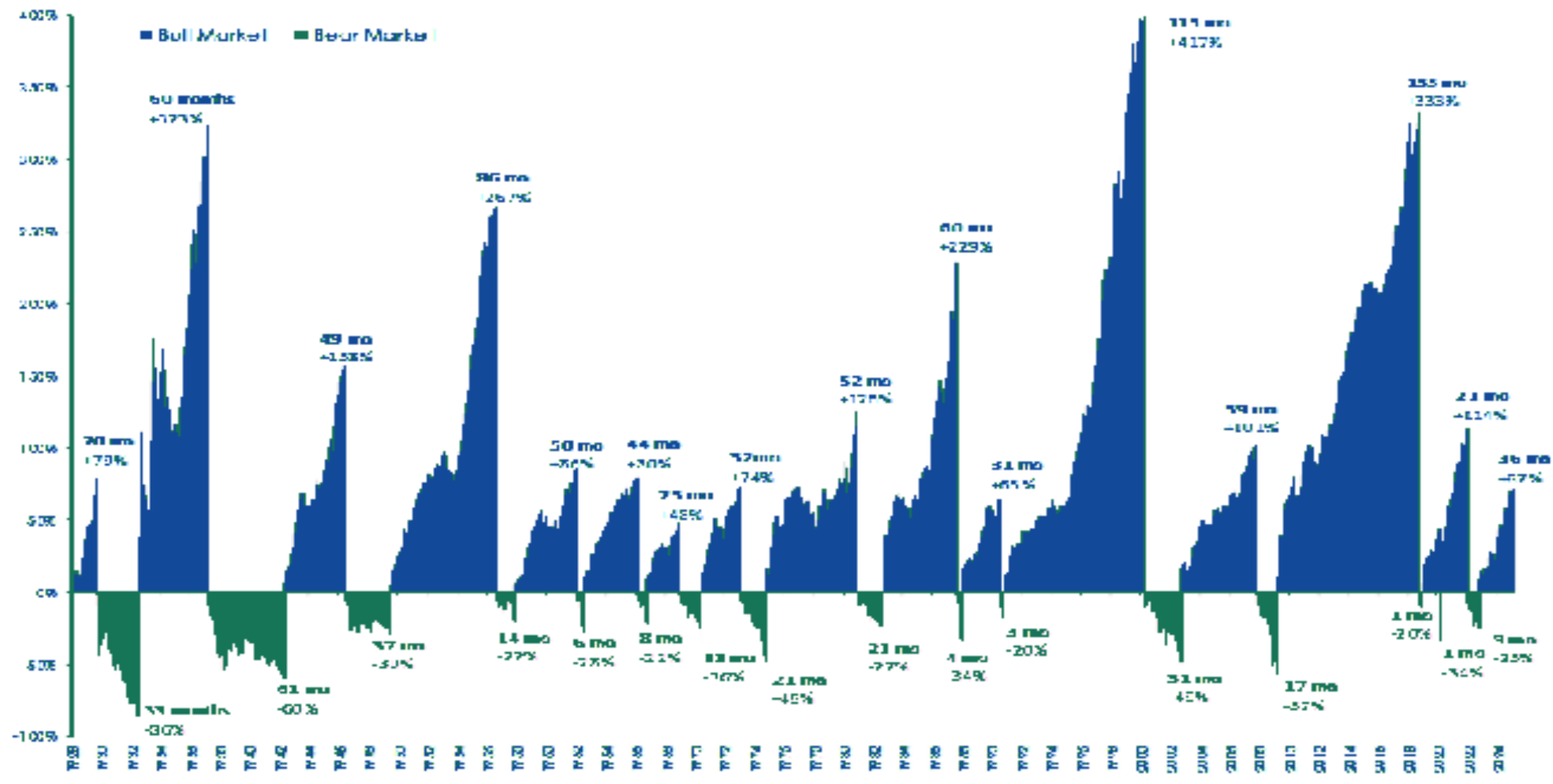
Quarterly Asset Class Performance

4Q 2025

4Q 2022	1Q 2023	2Q 2023	3Q 2023	4Q 2023	1Q 2024	2Q 2024	3Q 2024	4Q 2024	1Q 2025	2Q 2025	3Q 2025	YTD	1 year
DM Equity 17.7%	DM Equity 9.0%	Large Caps 8.7%	Comdty 10.0%	REITs 18.2%	Large Caps 10.4%	EM Equity 4.4%	REITs 17.3%	Large Caps 2.5%	DM Equity 8.1%	EM Equity 11.4%	Small Caps 12.4%	EM Equity 28.8%	EM Equity 19.0%
EM Equity 10.3%	Large Caps 7.4%	Small Caps 5.3%	Cash 1.3%	Small Caps 14.0%	DM Equity 6.0%	Large Caps 4.4%	Small Caps 9.2%	Cash 1.2%	Comdty 5.2%	DM Equity 11.2%	EM Equity 10.7%	DM Equity 25.5%	Large Caps 17.4%
Large Caps 7.6%	60/35/5 4.6%	DM Equity 3.2%	High Yield -0.3%	Large Caps 11.6%	Small Caps 5.0%	Cash 1.3%	EM Equity 7.7%	Comdty 1.0%	EM Equity 4.5%	Large Caps 10.8%	Large Caps 8.1%	Large Caps 14.6%	DM Equity 14.7%
60/35/5 6.8%	EM Equity 4.1%	60/35/5 3.0%	60/35/5 -2.9%	DM Equity 10.7%	Comdty 4.2%	Comdty 1.1%	DM Equity 6.8%	Small Caps 0.3%	Bonds 2.7%	Small Caps 8.5%	60/35/5 5.5%	60/35/5 12.5%	Small Caps 10.6%
Small Caps 6.2%	High Yield 3.7%	REITs 1.7%	Bonds -3.2%	60/35/5 8.9%	60/35/5 4.2%	60/35/5 1.0%	60/35/5 6.1%	High Yield -0.1%	REITs 2.7%	60/35/5 6.2%	DM Equity 4.5%	Small Caps 10.3%	60/35/5 10.0%
High Yield 5.0%	Bonds 3.2%	Cash 1.2%	Large Caps -3.2%	EM Equity 7.9%	EM Equity 2.2%	High Yield 0.7%	Large Caps 5.7%	60/35/5 -2.0%	High Yield 1.2%	High Yield 3.7%	REITs 3.6%	High Yield 7.1%	High Yield 6.9%
REITs 4.3%	Small Caps 2.7%	EM Equity 1.0%	EM Equity -4.1%	High Yield 7.0%	High Yield 1.5%	Bonds 0.0%	High Yield 5.6%	Bonds -3.1%	Cash 1.0%	Bonds 1.3%	Comdty 3.3%	Bonds 6.1%	Comdty 6.2%
Comdty 3.7%	REITs 1.6%	High Yield 0.7%	DM Equity -4.9%	Bonds 6.7%	Cash 1.3%	DM Equity -0.2%	Bonds 5.3%	EM Equity -7.2%	60/35/5 0.6%	Cash 1.0%	High Yield 2.1%	REITs 5.6%	Cash 4.2%
Bonds 1.6%	Cash 1.0%	Bonds -0.9%	Small Caps -5.2%	Cash 1.3%	Bonds -0.7%	REITs -2.0%	Cash 1.3%	REITs -7.7%	Large Caps -4.3%	REITs -0.7%	Bonds 2.0%	Comdty 5.4%	Bonds 2.8%
Cash 0.8%	Comdty -3.7%	Comdty -4.4%	REITs -8.6%	Comdty -7.3%	REITs -1.3%	Small Caps -3.3%	Comdty -4.1%	DM Equity -8.3%	Small Caps -9.5%	Comdty -3.1%	Cash 1.1%	Cash 3.1%	REITs -2.5%

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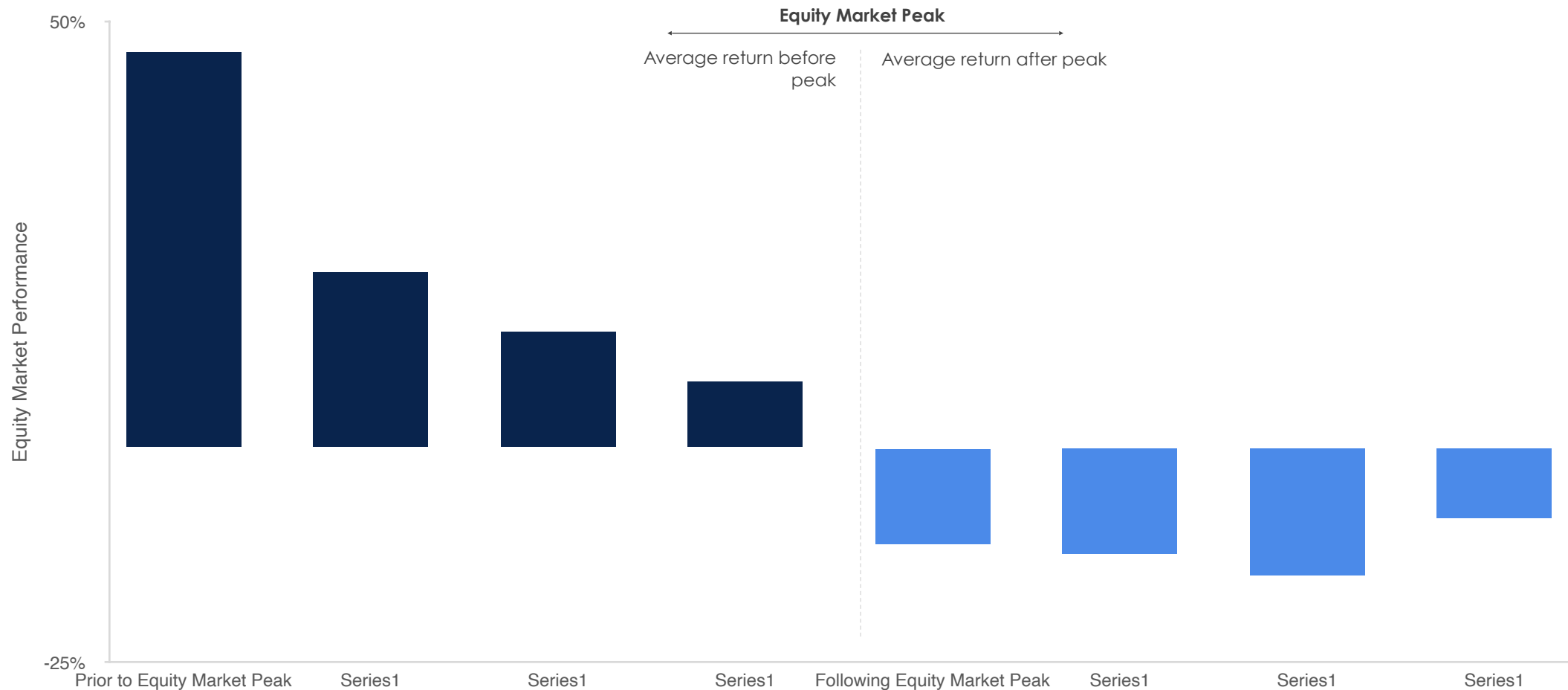
S&P 500 Bull & Bear Markets



Disclosures: All performance data represents price returns of the S&P 500. Past performance is no guarantee of future results. Bear Markets are defined as a decline of at least 20% from the market's high point to its low.

Average Returns Prior To & Following Equity Market Peaks

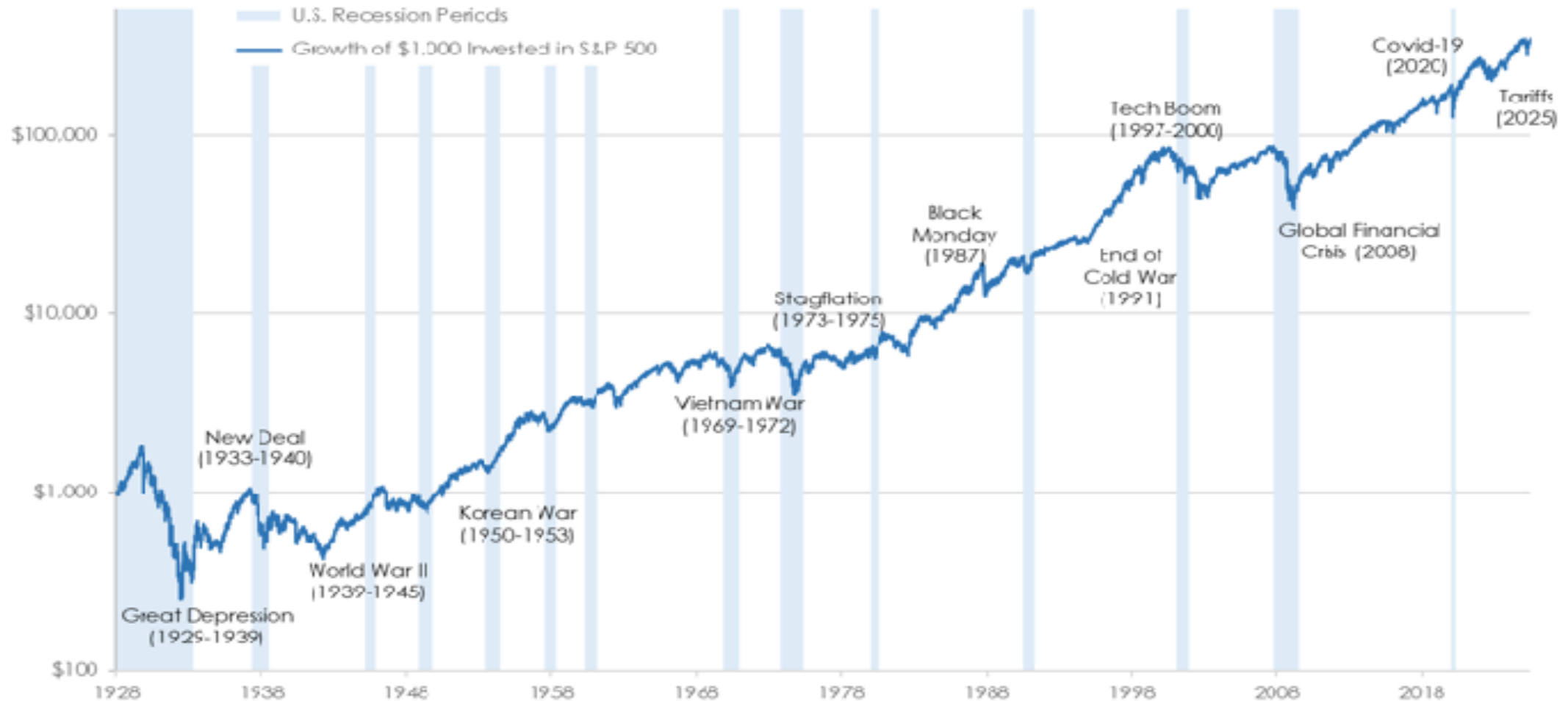
4Q 2025



Disclosures: All performance data represents price returns of the S&P 500. Past performance is no guarantee of future results. The analysis is based on 14 bull/bear market cycles since 1937. Bear Markets are defined as a decline of at least 20% from the market's high point to its low.

Historic Market Events

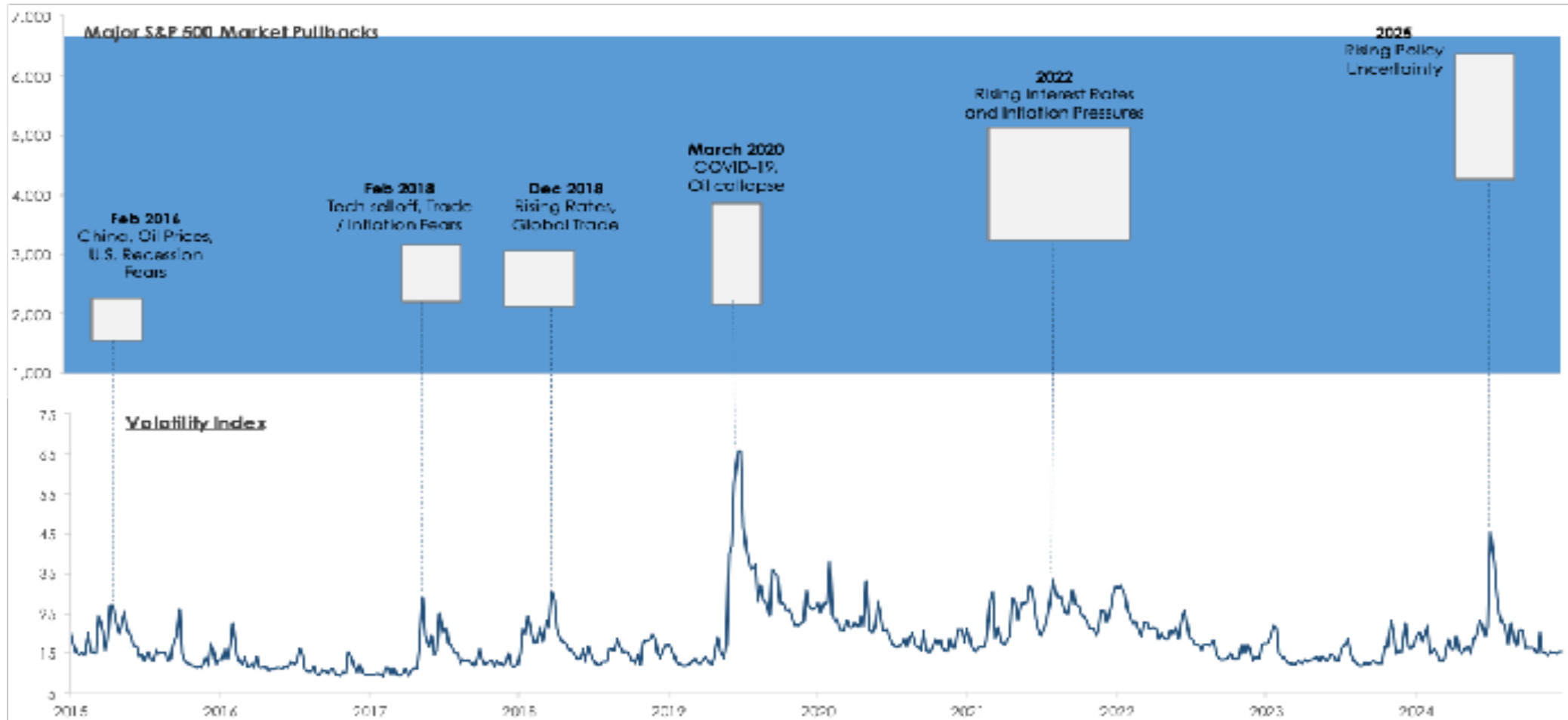
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Disclosures: All performance data represents price returns of the S&P 500. Past performance is no guarantee of future results. U.S. Recession dates are based on National Bureau of Economic Research (NBER).

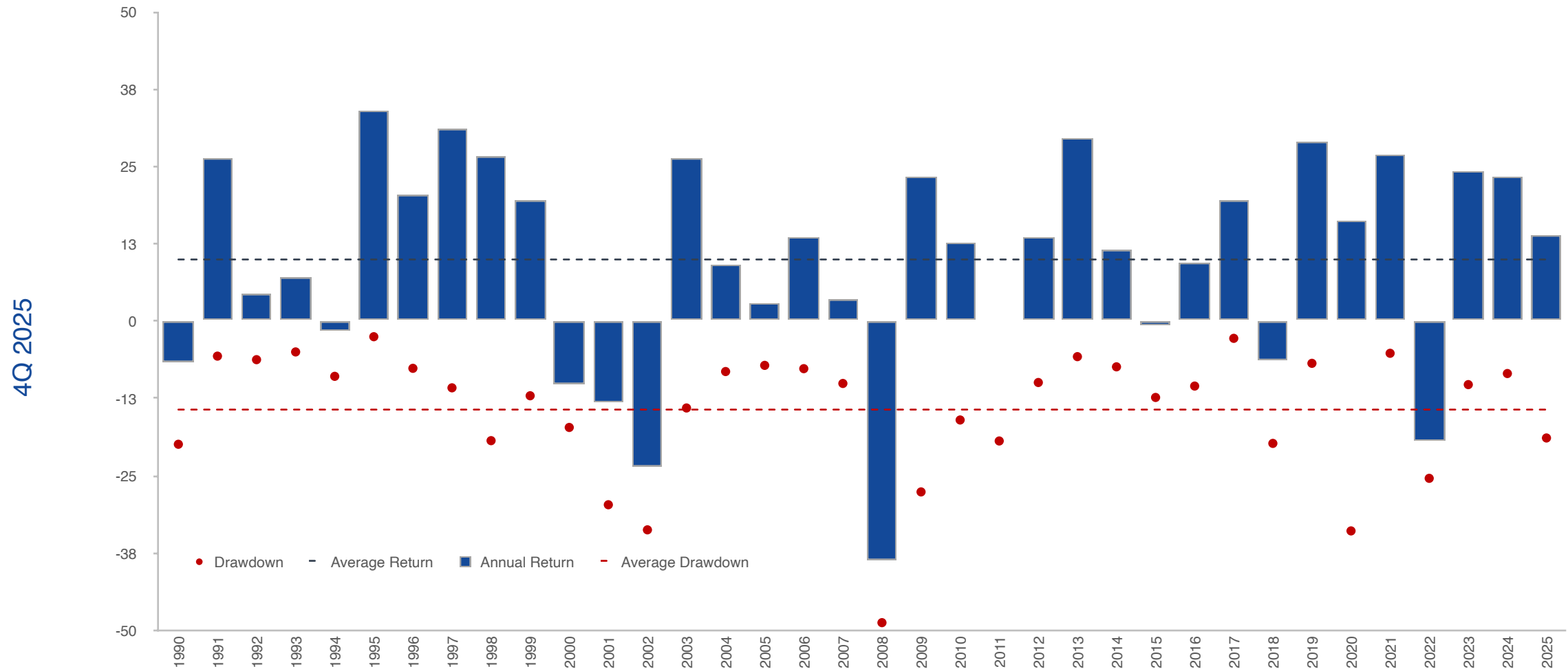
Volatility Index

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Disclosures: Past performance is no guarantee of future results. All performance data represents price returns of the SPDR S&P 500 ETF Trust (SPY). The CBOE VIX measures the market's expectations of future volatility and is based on S&P 500 options activity.

History of Market Drawdowns by Year



Disclosures: Past performance is no guarantee of future results. For illustrative purposes only. All performance data represents price returns and does not include dividends for the stated period. Drawdown is calculated from the intra-year peak to trough levels. Analysis is based on the State Street SPDR S&P 500 ETF (SPY).

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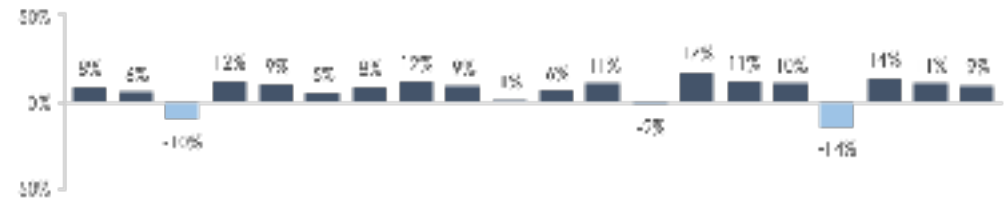
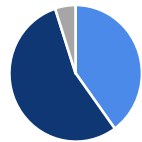
Asset Allocation

Statistics, Risk vs Reward, Asset Class
Correlations

20 Years of Asset Allocation Statistics

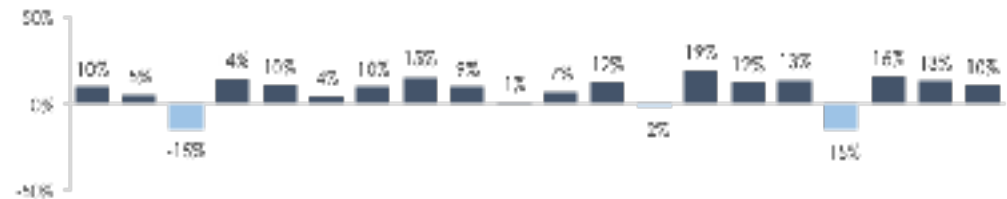
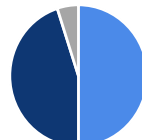
■ Equity ■ Fixed Income ■ Cash

Conservative



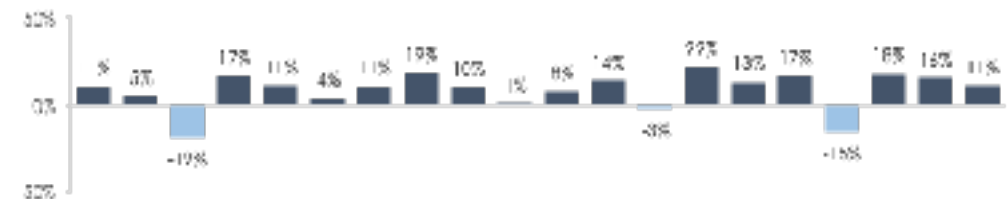
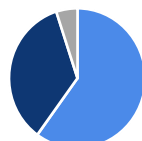
Average Annual Return	6.6%
Standard Deviation	7.8%
Highest / Lowest Return	+17% / -14%
Growth of \$100,000	\$343,001

Moderately Conservative



Average Annual Return	7.5%
Standard Deviation	9.2%
Highest / Lowest Return	+19% / -15%
Growth of \$100,000	\$397,478

Moderate



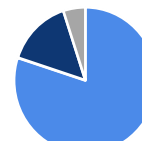
Average Annual Return	8.5%
Standard Deviation	10.7%
Highest / Lowest Return	+22% / -19%
Growth of \$100,000	\$457,538

Moderately Aggressive



Average Annual Return	9.4%
Standard Deviation	12.2%
Highest / Lowest Return	+24% / -23%
Growth of \$100,000	\$523,091

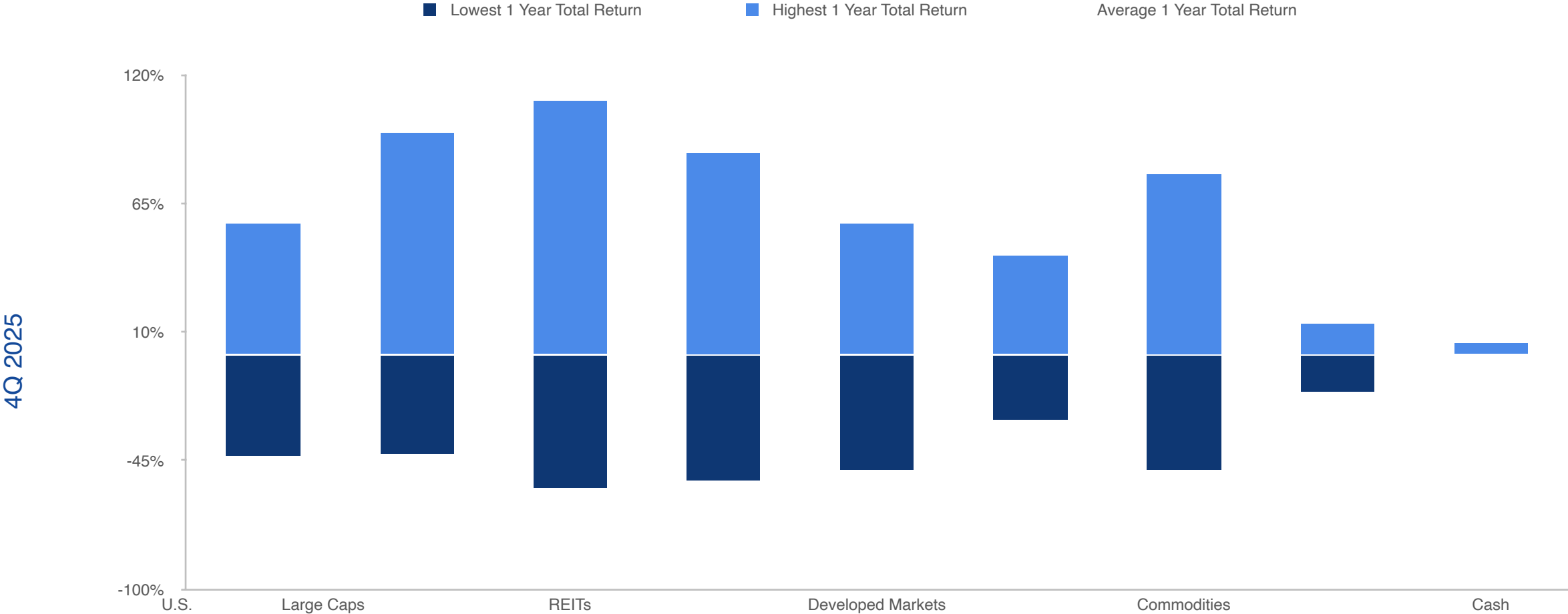
Aggressive



Average Annual Return	10.3%
Standard Deviation	13.8%
Highest / Lowest Return	+26% / -28%
Growth of \$100,000	\$593,848

Disclosures: Past performance is no guarantee of future results. All performance data represents total returns for the stated period. Asset allocation portfolios are rebalanced every 12 months. Asset classes are represented by the following ETFs: Equity (SPY - SPDR S&P 500 ETF), Fixed Income (AGG - iShares Core U.S. Aggregate Bond ETF), Cash (BIL - SPDR Bloomberg Barclays 1-3 Month T-Bill ETF). Equity / Fixed Income / Cash allocations as a percentage of the total portfolio: Conservative (40/55/5), Moderately Conservative (50/45/5), Moderate (60/35/5), Moderately Aggressive (70/25/5), Aggressive (80/15/5).

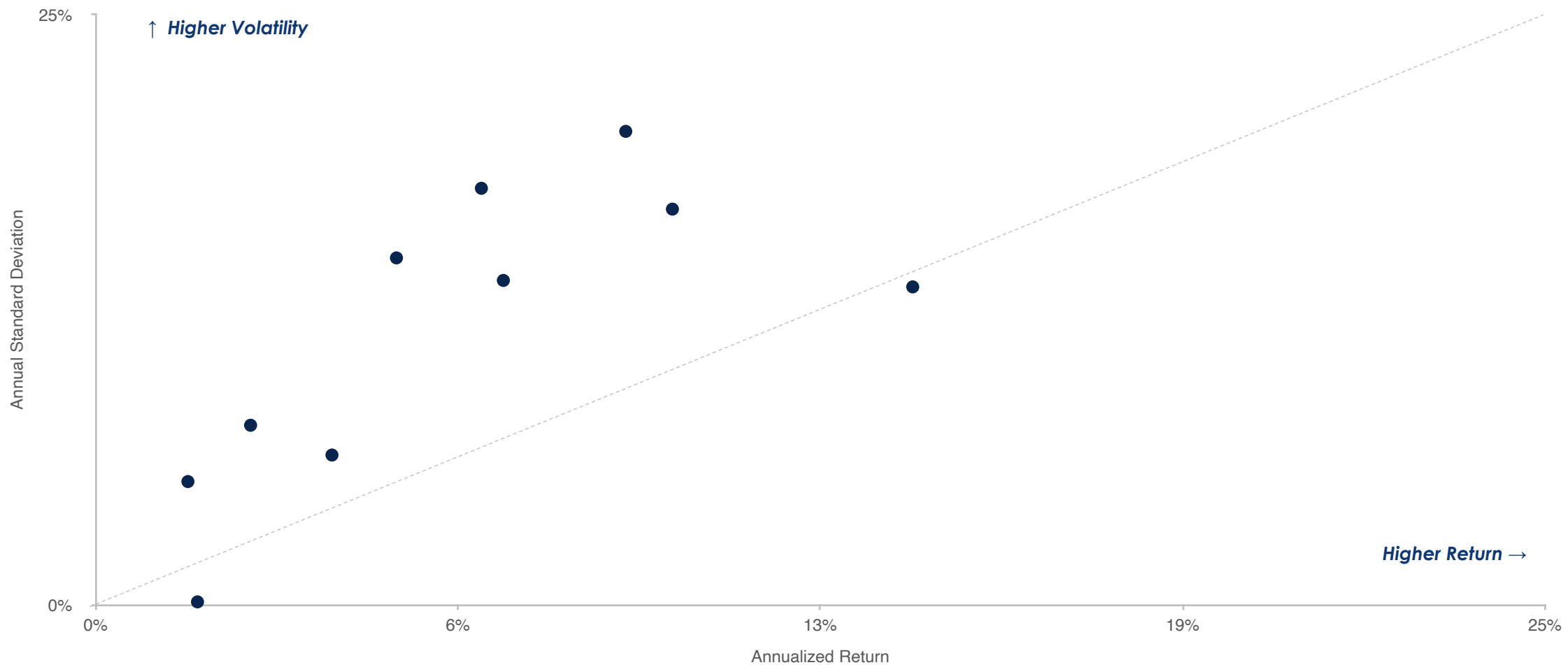
Asset Class Return Ranges Over 20 Years



Disclosures: Past performance is no guarantee of future results. Performance data represents total returns for a 12-month period matching the description over the last 20 years. Note: Commodity and High Yield Bond ETF price data is only available since 2006. REITs ETF price data is only available since 2004. Asset classes are represented by the following ETFs: Emerging Markets (EEM - iShares MSCI Emerging Markets ETF), Commodities (DBC - Invesco DB Commodity ETF), Developed Markets (EFA - iShares MSCI EAFE ETF), REITs (VNQ - Vanguard Real Estate ETF), U.S. Large Caps (SPY - SPDR S&P 500 ETF), U.S. Small Caps (IWM - iShares Russell 2000 ETF), High Yield (HYG - iShares iBoxx \$ High Yield Corporate Bond ETF), Cash (BIL - SPDR Bloomberg Barclays 1-3 Month T-Bill ETF), Bond Aggregate (AGG - iShares Core U.S. Aggregate Bond ETF).

Asset Class Risk vs Reward

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Disclosures: Past performance is no guarantee of future results. Annual Standard Deviation and the Annualized Return use monthly data from the past 10 years. Annualized returns are based on dividends reinvested. Asset classes are represented by the following ETFs: Cash (BIL - SPDR Bloomberg Barclays 1-3 Month T-Bill ETF), Bond Aggregate (AGG - iShares Core U.S. Aggregate Bond ETF), Investment Grade (LQD - iShares iBoxx \$ Investment Grade Corporate Bond ETF), High Yield (HYG - iShares iBoxx \$ High Yield Corporate Bond ETF), Large Caps (SPY - SPDR S&P 500 ETF), Small Caps (IWM - iShares Russell 2000 ETF), Mid Caps (MDY - SPDR S&P Midcap 400 ETF), REITs (VNQ - Vanguard Real Estate ETF), Emerging Markets (EEM - iShares MSCI Emerging Markets ETF), Developed Market (EFA - iShares MSCI EAFE ETF).

Asset Class Correlations

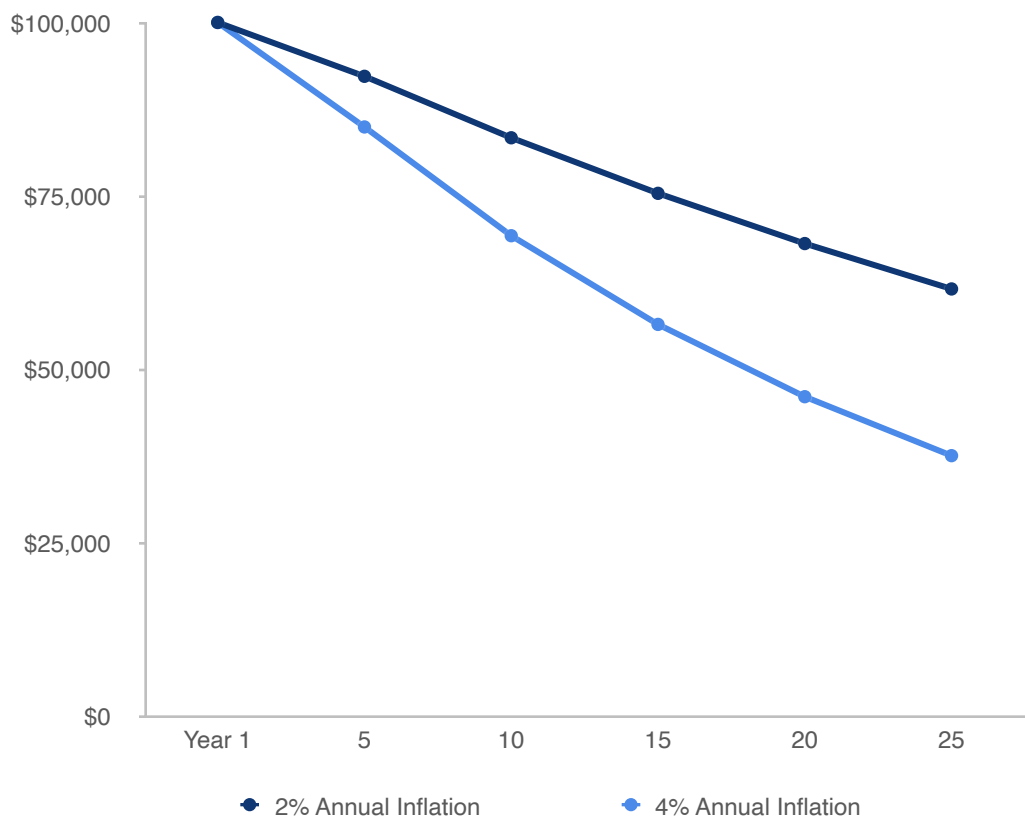
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	U.S. Large Caps	U.S. Small Caps	Developed Markets	Emerging Markets	Bond Aggregate	High Yield	U.S. Dollar	Comdty	U.S. Growth	U.S. Value	REITs	Gold
U.S. Large Caps	1.00	0.86	0.85	0.69	0.38	0.81	-0.36	0.41	0.95	0.93	0.78	0.10
U.S. Small Caps		1.00	0.76	0.62	0.29	0.75	-0.28	0.43	0.78	0.90	0.74	-0.03
Developed Markets			1.00	0.81	0.46	0.80	-0.62	0.46	0.75	0.86	0.72	0.21
Emerging Markets				1.00	0.43	0.68	-0.63	0.44	0.63	0.68	0.58	0.35
Bond Aggregate					1.00	0.56	-0.54	-0.11	0.41	0.31	0.57	0.42
High Yield						1.00	-0.45	0.42	0.74	0.81	0.73	0.26
U.S. Dollar							1.00	-0.18	-0.31	-0.36	-0.36	-0.53
Commodities								1.00	0.30	0.52	0.32	0.06
U.S. Growth									1.00	0.78	0.69	0.10
U.S. Value										1.00	0.80	0.07
REITs											1.00	0.18

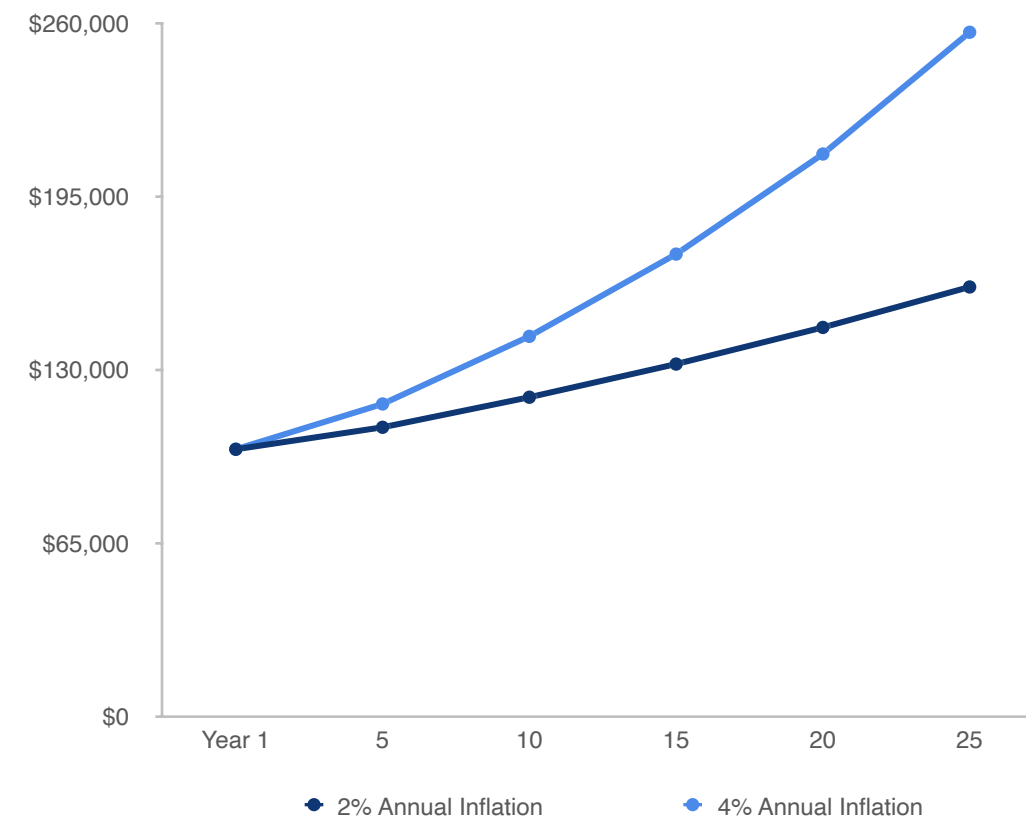
Disclosures: Past performance is no guarantee of future results. Correlations are based on 10 years of monthly total returns. Asset Classes are represented by the following ETFs: U.S. Large Caps (SPY - SPDR S&P 500 ETF), U.S. Small Caps (IWM - iShares Russell 2000 ETF), Developed Markets (EFA - iShares MSCI EAFE ETF), Emerging Markets (EEM - iShares MSCI Emerging Markets ETF), Bonds (AGG - iShares Core U.S. Aggregate Bond ETF), High Yield (HYG - iShares iBoxx \$ High Yield Corporate Bond ETF), Municipal Bonds (MUB - iShares National Muni Bond ETF), USD Index (United States Dollar Index), Emerging Market Sovereign Debt (LEMB - iShares J.P. Morgan EM Local Currency Bond ETF), Commodities (DBC - Invesco DB Commodity ETF), REITs (VNQ - Vanguard Real Estate ETF), Gold (GLD - SPDR Gold ETF).

Inflation's Impact

Inflation's Impact on Your Purchasing Power
Assumes constant annual inflation rates



Price Increases Based on Inflation
Assumes constant annual inflation rates



Disclosures: Past performance is no guarantee of future results. Investing involves risks, including possible loss of principal. Hypothetical illustrative examples for educational purposes only. Assumes constant annual inflation rate.

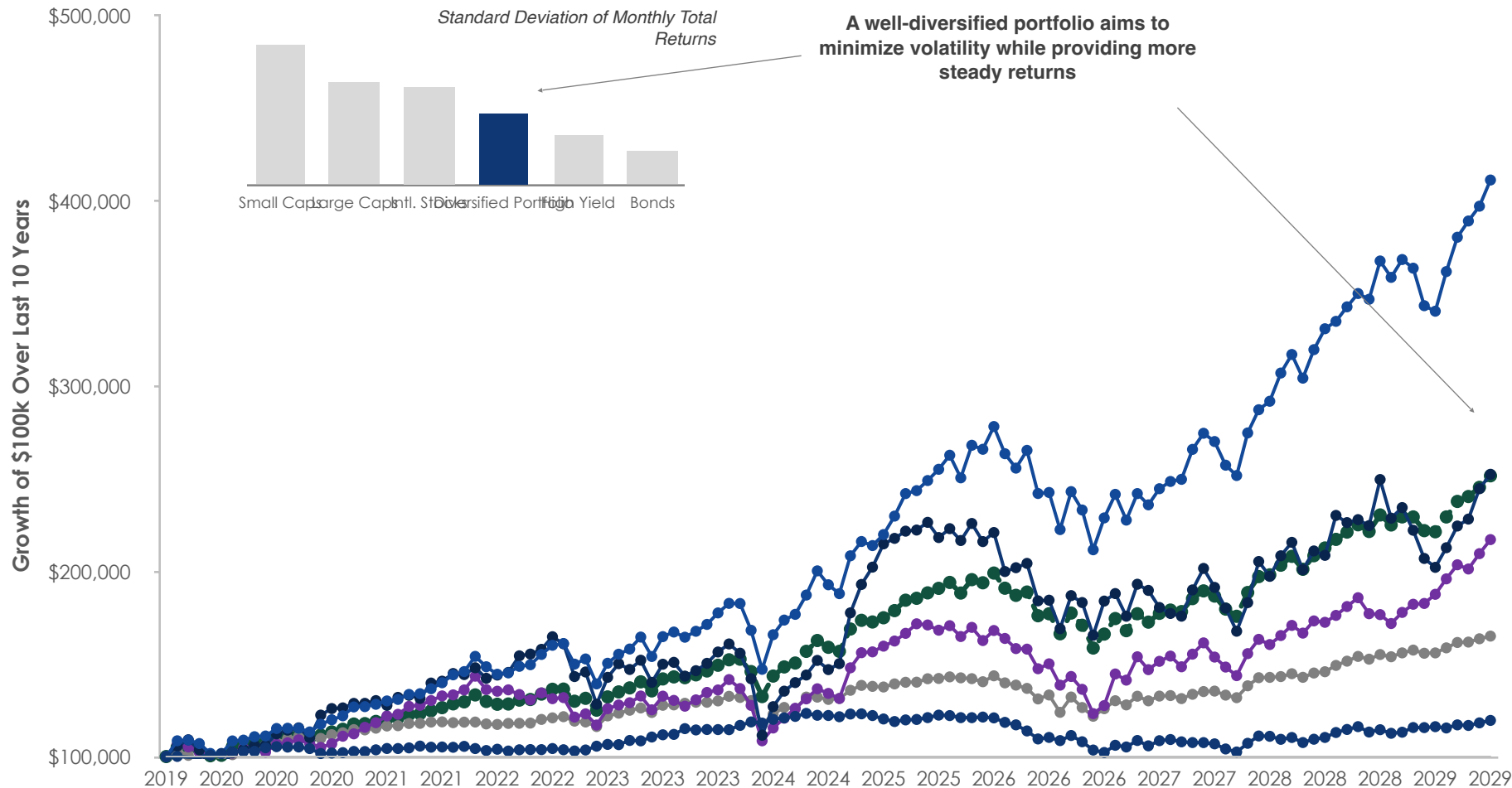
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Important Investing Lessons

Diversification, Market Timing, Withdrawing Capital

Importance of Diversification

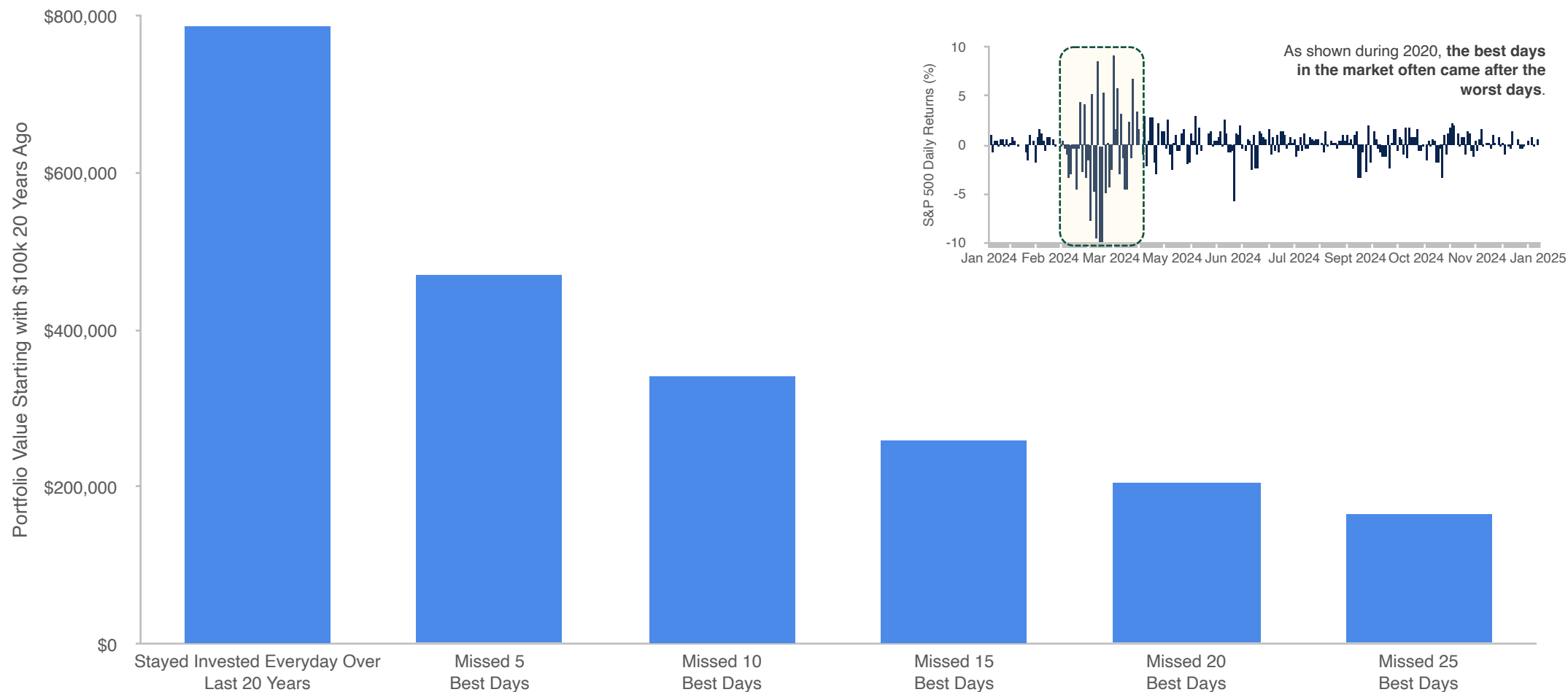
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Disclosures: Past performance is no guarantee of future results. Performance is for illustrative purposes only. Diversification does not guarantee a profit or protect against a loss in a declining market. Diversified Portfolio is represented by 40% Large Caps (SPY - SPDR S&P 500 ETF), 10% Developed Markets (EFA - iShares MSCI EAFE ETF), 5% Small Caps (IWM - iShares Russell 2000 ETF), 30% Bonds (AGG - iShares U.S. Aggregate Bond ETF), 10% High Yield (HYG - U.S. Corporate High Yield Bond ETF), and 5% Emerging Markets (EEM - iShares MSCI Emerging Markets ETF). Standard deviation is a measure of the amount of variation of each portfolio.

Time, Not Timing, is What Matters

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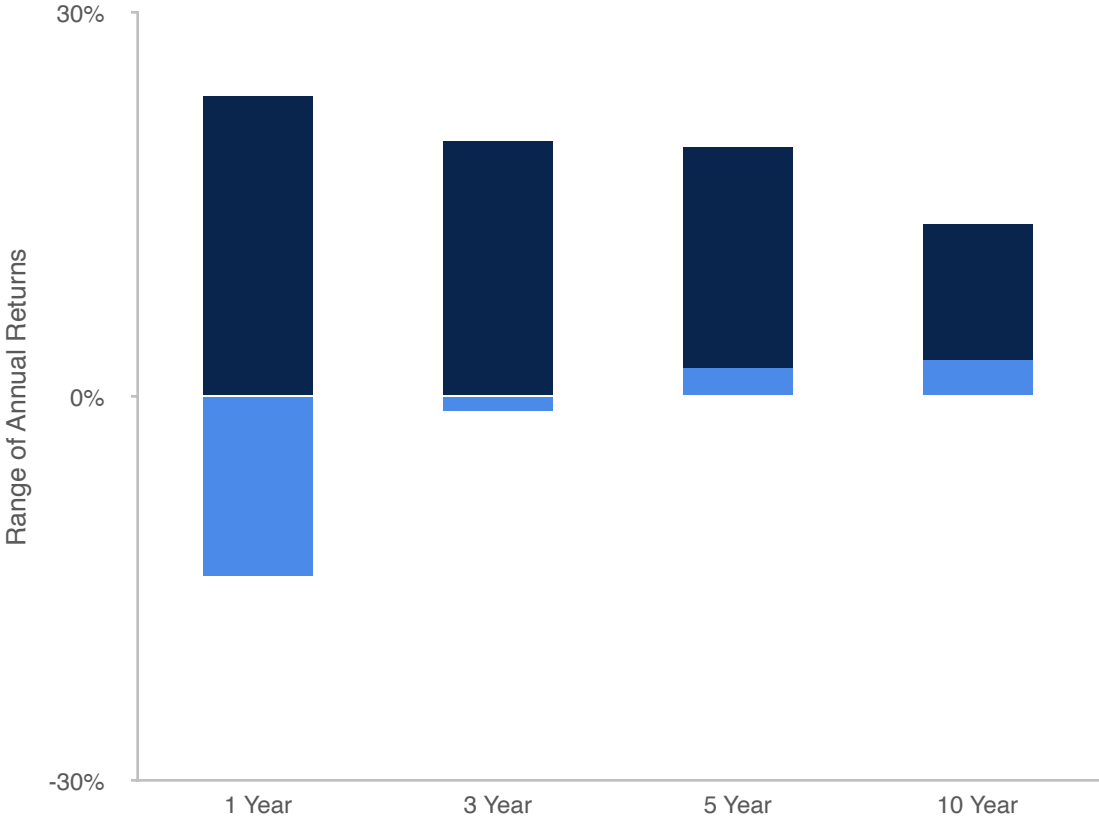
Disclosures: Past performance is no guarantee of future results. The analysis is based on 20 years of daily price return data. The portfolio value is represented by the State Street SPDR S&P 500 ETF (SPY), which represents an index of large cap stocks. The analysis does not include the impact of taxes or capital gains.

Staying Invested for the Long Term

Range of Annualized Returns for Rolling 1-, 3-, 5-, 10-Year Periods
Based on 50 Stock / 50 Bond Portfolio's Rolling Annual Returns Over Last 30 Years

% of Time a 50 Stock / 50 Bond Portfolio was Positive / Negative
Based on Various Holding Periods Using Monthly Data From the Last 30 Years

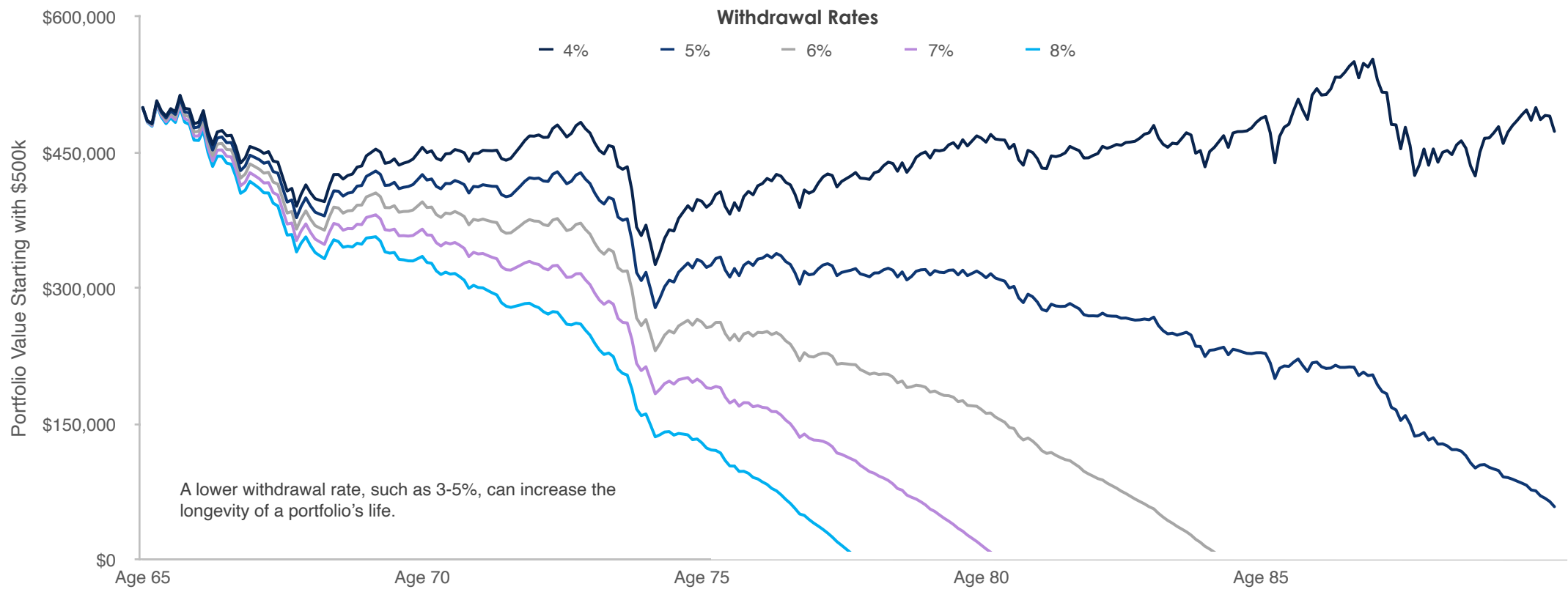
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Disclosures: Past performance is no guarantee of future results. The analysis is based on the last 30 years of total return data. Returns are represented by a 50/50 allocation to equities (State Street S&P 500 ETF - SPY) and bonds (Bloomberg Bond Aggregate Index).

Impact of Various Withdrawal Rates

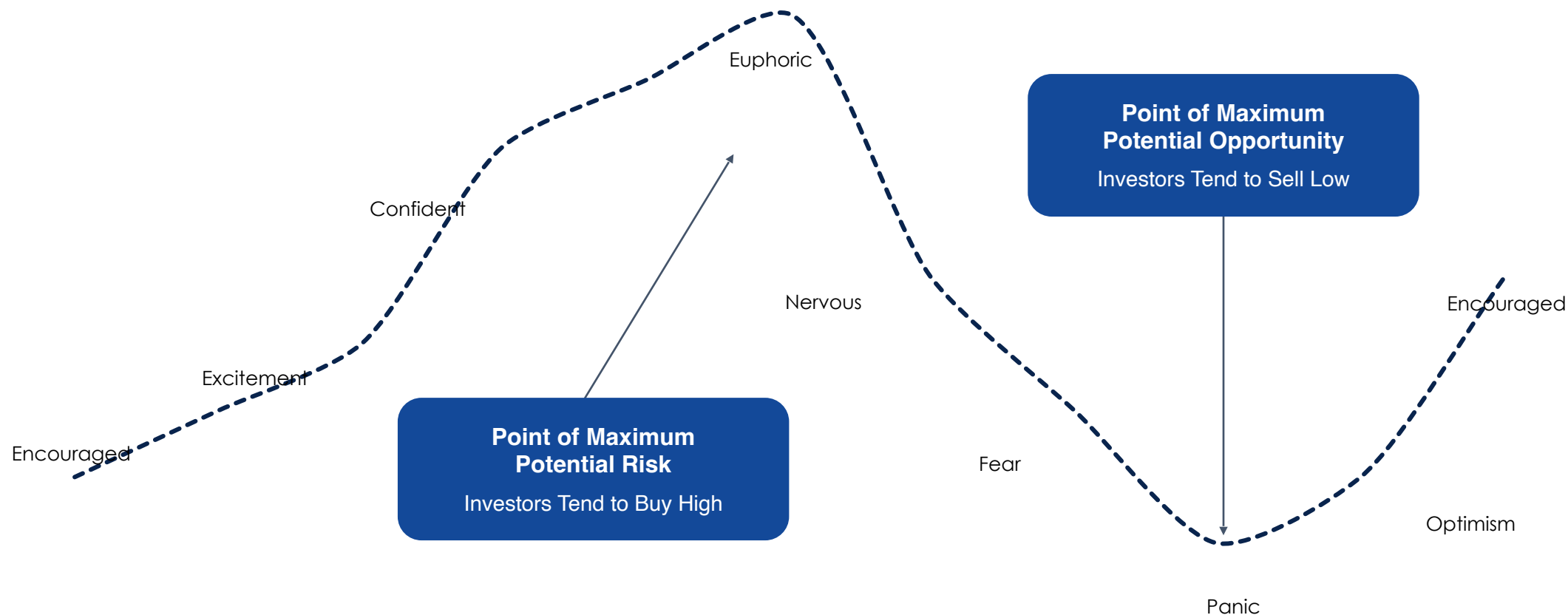
4Q 2025



Disclosures: Past performance is no guarantee of future results. This is a hypothetical illustration for educational purposes only and assumes a hypothetical initial portfolio balance of \$500,000 as of January 1st, 2000. The analysis looks at the impact on the portfolio based on various amounts withdrawn monthly from the portfolio throughout several market cycles. Each monthly withdrawal is adjusted annually for inflation (measured by the consumer price index) and the portfolio is rebalanced at the end of the month. This hypothetical portfolio is made up of 50% stocks represented by the State Street SPDR S&P 500 ETF (SPY) and 50% bonds represented by the Bloomberg Barclays U.S. Aggregate Bond ETF (AGG). The longevity of a portfolio can be based on the following factors: withdrawal rate, asset class mix, diversification, capital gains, fund expenses, and life expectancy. Performance is based on total returns including dividends reinvested.

The Cycle of Market Emotions

4Q 2025

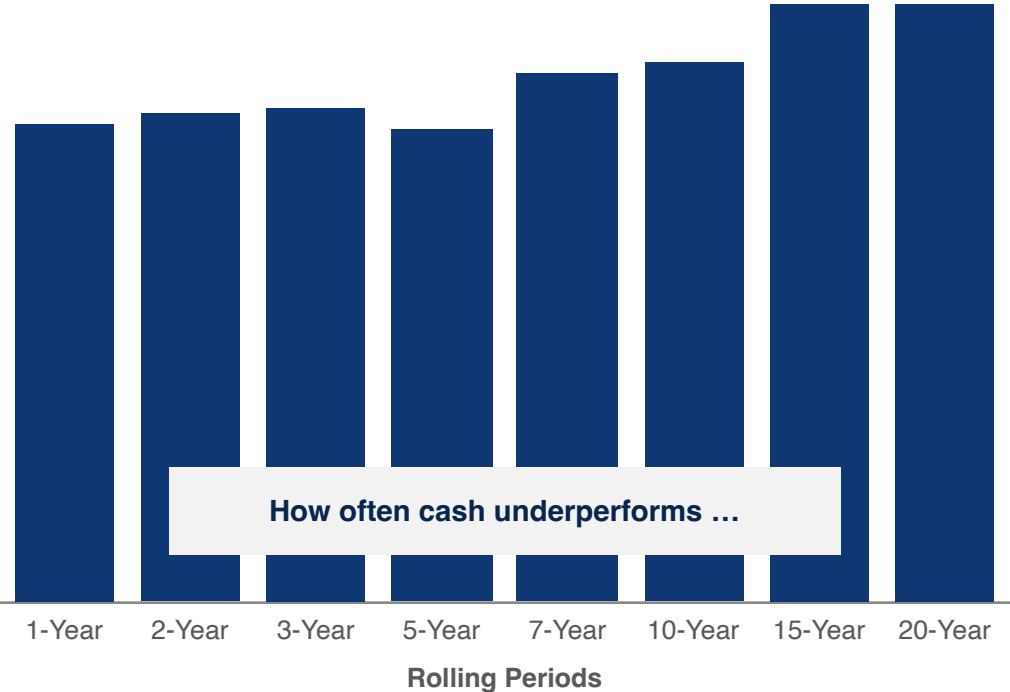


Disclosures: Strictly for illustrative and educational purposes only. This analysis is not a recommendation, offer or solicitation to buy or sell any securities or to adopt any investment strategy.

The Odds of Cash Underperforming Are High

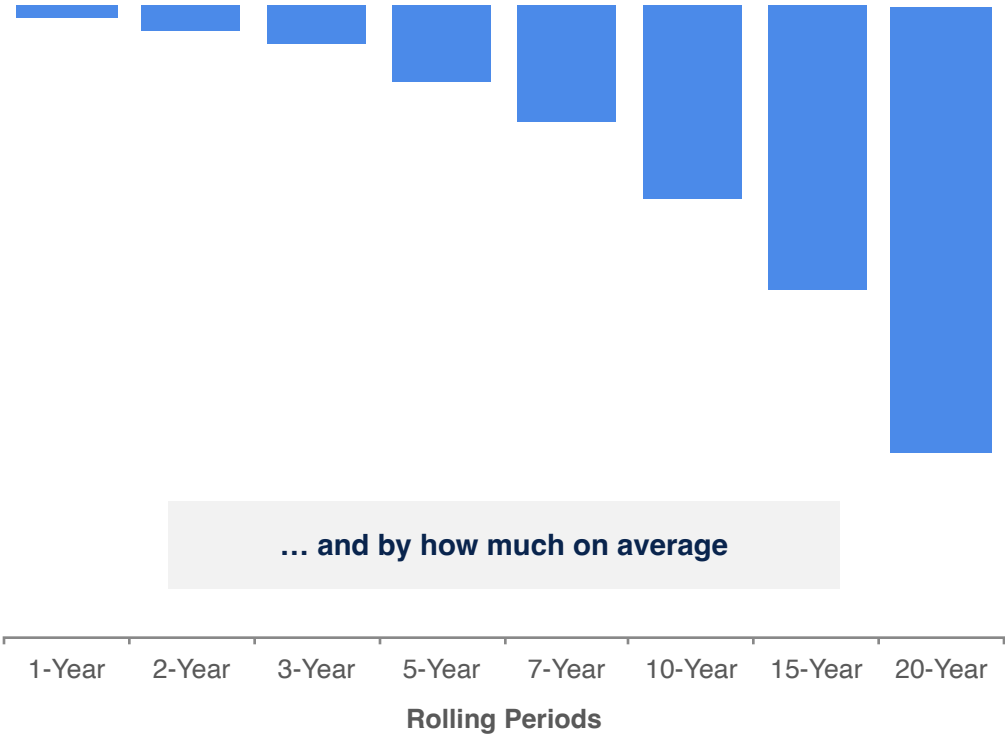
Percentage of Times Cash Underperformed the S&P 500
Based on Total Returns for 1990-2024

4Q 2025



How often cash underperforms ...

Average Underperformance: Cash vs S&P 500
Relative Total Return for 1990-2024



... and by how much on average

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Definitions

Annualized Return	The rate at which an investment grows each year over the period to arrive at the final valuation.
Bear Market	A decline of at least 20% from the market's high point to its low.
Beta	A measure of how an individual asset moves when the overall stock market increases or decreases.
Correlation	A measure of the extent to which two variables are related
Dividend Yield:	The dividend yield or dividend-price ratio of a share is the dividend per share, divided by the price per share. It is also a company's total annual dividend payments divided by its market capitalization, assuming the number of shares is constant.
Developed Markets	A country that is most developed in terms of its economy and capital markets. The country must be high income, but this also includes openness to foreign ownership, ease of capital movement, and efficiency of market institutions.
Emerging Markets	A country that has some characteristics of a developed market but does not fully meet its standards. This includes markets that may become developed markets in the future or were in the past
Large Cap Stocks	Shares of publicly traded corporations with a market capitalization of \$10 billion or more
LTM	An acronym for "Last Twelve Months" or the past one year
NTM	An acronym for "Next Twelve Months" or the next one year
Price Return	The rate of return on an investment portfolio, where the return measure takes into account only the capital appreciation of the portfolio, not including income generated in the form of interest or dividends.
Total Return	Return on a portfolio of investments including capital appreciation and income received on the portfolio.
Small Cap Stocks	Shares of publicly traded corporations with a market capitalization of \$2 billion or less.
Standard Deviation	In statistics, the standard deviation is a measure of the amount of variation or dispersion of a set of values. A low standard deviation indicates the values tend to be close to the historical average of the data set, while a high standard deviation indicates the current value is outside of the historical average range.
CBOE Volatility Index (VIX)	Measures the market's expectations of future volatility and is based on S&P 500 options activity.

Disclosures and Legal Notice

Investing involves risk, including the possible loss of principal. Stock markets can be volatile. Investments in securities of small and medium capitalization companies may involve greater risk of loss and more abrupt fluctuations in market price than investments in larger companies. Investments in fixed-income instruments are subject to the possibility that interest rates could rise, causing their values to decline. High yield and unrated debt securities are at a greater risk of default than investment grade bonds and may be less liquid, which may increase volatility. Investors in asset-backed securities, including mortgage-backed securities and collateralized loan obligations (“CLOs”), generally receive payments that are part interest and part return of principal. These payments may vary based on the rate loans are repaid. Some asset-backed securities may have structures that make their reaction to interest rates and other factors difficult to predict, making their prices volatile and they are subject to liquidity and valuation risk. CLOs bear similar risks to investing in loans directly, such as credit, interest rate, counterparty, prepayment, liquidity, and valuation risks. Loans are often below investment grade, may be unrated, and typically offer a fixed or floating interest rate.

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Thank You

