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# S&P 500<sup>®</sup> Daily Risk Control 5 % Index

# J.P.Morgan

## PERFORMANCE UPDATE

The S&P 500<sup>®</sup> Daily Risk Control 5% Index (the "Index") represents a portfolio consisting of the S&P 500 and a cash component accruing interest that dynamically adjusts to target a 5% level of volatility. Volatility is calculated as a function of historical returns that uses exponential weightings to give more significance to recent observations.

S&P Risk Control Indices use an overlay designed to maintain risk at a predefined level—in this case, up to 5% volatility. The risk control framework is applied to the underlying index and helps to reduce portfolio volatility to the 5% target by moving a portion of the portfolio allocation from the underlying index to cash in volatile markets and from cash to the underlying index in less volatile markets.

The Index is calculated on an excess return basis.

The Index was established on September 10, 2009.

Levels are published on Bloomberg using the ticker SPXT5UE.

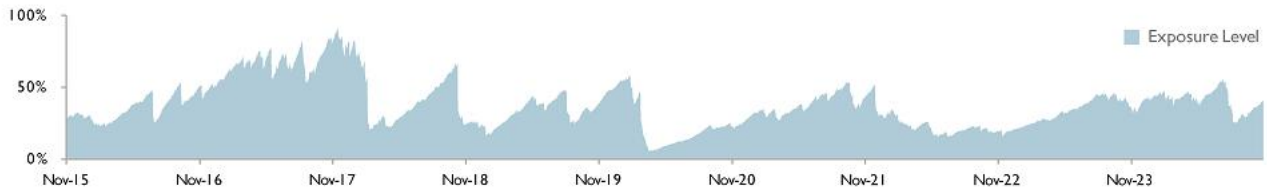
Hypothetical and actual historical performance: Oct 2014 through Oct 2024



Hypothetical and actual historical returns and volatilities: Oct 2014 through Oct 2024

	1 Year Return	3 Year Return (Annualized)	5 Year Return (Annualized)	10 Year Return (Annualized)	10 Year Volatility (Annualized)	Sharpe Ratio
<b>S&amp;P 500 Daily Risk Control 5% Excess Return (USD) Index</b>	10.21%	2.02%	3.59%	3.60%	5.09%	0.71
<b>Domestic 30/70 Portfolio (ER)</b> (30% S&P 500, 70% Bloomberg Barclays Aggregate)	11.49%	-2.08%	2.02%	3.00%	6.15%	0.49
<b>Global 30/70 Portfolio (ER)</b> (30% MSCI ACWI, 70% Bloomberg Barclays Global Agg Bond)	9.47%	-4.42%	-0.17%	0.97%	6.09%	0.16

Hypothetical and actual historical monthly weights: Nov 2015 through Oct 2024



Hypothetical and actual historical monthly and annual returns: Jan 2015 through Oct 2024

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
<b>2015</b>	-0.99%	1.81%	-0.63%	0.31%	0.54%	-0.94%	0.92%	-3.74%	-0.47%	1.96%	0.08%	-0.52%	-1.76%
<b>2016</b>	-1.64%	0.03%	1.76%	0.06%	0.71%	-0.48%	1.03%	0.02%	-0.26%	-0.84%	1.78%	0.97%	3.13%
<b>2017</b>	1.05%	2.55%	0.07%	0.68%	0.70%	0.27%	1.24%	-0.01%	1.26%	1.68%	2.50%	0.81%	13.54%
<b>2018</b>	4.10%	-2.42%	-0.83%	0.06%	0.63%	0.04%	1.45%	1.54%	0.28%	-3.98%	0.47%	-2.37%	-1.26%
<b>2019</b>	1.50%	0.74%	0.56%	1.38%	-2.69%	2.55%	0.46%	-1.19%	0.39%	0.68%	1.45%	1.43%	7.39%
<b>2020</b>	-0.01%	-3.00%	-1.13%	0.93%	0.53%	0.25%	0.82%	1.40%	-0.90%	-0.72%	2.43%	1.06%	1.56%
<b>2021</b>	-0.37%	0.76%	1.34%	1.71%	0.24%	0.94%	1.03%	1.41%	-2.29%	2.60%	-0.48%	1.38%	8.49%
<b>2022</b>	-1.85%	-0.72%	0.76%	-2.15%	0.00%	-1.59%	1.72%	-0.99%	-2.04%	1.61%	1.08%	-1.22%	-5.37%
<b>2023</b>	1.35%	-0.74%	0.90%	0.40%	0.04%	2.19%	1.15%	-0.95%	-2.25%	-1.11%	3.01%	1.71%	5.71%
<b>2024</b>	0.55%	2.15%	1.20%	-2.06%	1.73%	1.43%	0.28%	-0.11%	0.54%	-0.57%			5.20%

The "Domestic 30/70 Portfolio (ER)" is a notional portfolio providing a monthly-rebalancing 30%/70% weighted exposure to the S&P 500 Total Return Index and the Bloomberg Barclays U.S. Aggregate Bond Total Return Index. The "Global 30/70 Portfolio (ER)" is a notional portfolio providing a monthly-rebalancing 30%/70% weighted exposure to the MSCI ACWI Net Total Return Index and the Bloomberg Barclays Global Aggregate Total Return Index Value Unhedged USD (a global investment-grade bond index). Each notional portfolio is calculated on an excess return basis, i.e., net of a notional financing cost deduction equal to the return of the J.P. Morgan Cash Index USD 3 Month, which tracks the return of a notional 3-month U.S. dollar time deposit. Weights within these notional portfolios are intended to approximate the average weights within the Index, but will not correspond to historical or future weights within the Index. The notional portfolios track assets that differ from those tracked by the Index and are not rebalanced on the same schedule as the Index. All performance data for the Domestic 30/70 Portfolio (ER) and the Global 30/70 Portfolio (ER) is hypothetical and there is no guarantee that the Index will outperform either one, or any other benchmark or index, in the future. PAST PERFORMANCE AND BACKTESTED PERFORMANCE ARE NOT INDICATIVE OF FUTURE RESULTS. Please see the Disclaimer on the following page.

### Selected Risks

- JPMorgan Chase & Co. is currently one of the companies that make up the underlying index
- The Index may not be successful and may not outperform or underperform the underlying index
- The Index may not approximate its target volatility of 5%
- The daily adjustment of the exposure of the Index to the underlying index may cause the Index not to reflect fully any appreciation of the underlying index or to magnify any depreciation of the underlying index
- The Index may be significantly uninvested, which will result in a portion of the Index reflecting no return
- The level of the Index reflects the deduction of a notional financing cost
- The Index's methodology for calculating the notional financing cost was recently changed

*The risks identified above are not exhaustive. You should also review carefully the related "Risk Factors" section in the prospectus supplement and the relevant product supplement and underlying supplement and the "Selected Risk Considerations" in the relevant pricing supplement.*

### Disclaimer

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The Sharpe Ratio on the previous page is a measure of risk-adjusted performance, calculated as the 10 Year Return (Annualized) divided by the 10 Year Volatility (Annualized).

Investment suitability must be determined individually for each investor, and CDnotes linked to the Index may not be suitable for all investors. This material is not a product of J.P. Morgan Research Departments.

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