

Monthly Market Metrics and Trends: July

Analyzing Volatility, Market Performance, and Equity and Options Volumes

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Market Metrics

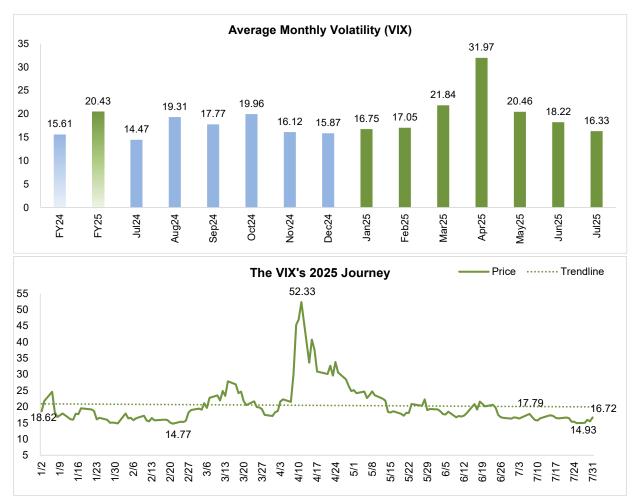
- Volatility (VIX): Monthly average 16.33; -10.3% M/M, +12.9% Y/Y
- S&P 500 (Price): Monthly average 6,296.50; +4.4% M/M, +13.7% Y/Y
- Performance (month/year): Best = Tech/Ind +5.2%/+15.3%; worst = Healthcare/HC, -3.4%/-5.4%
- Equity ADV: Monthly average 18.0 billion shares; -1.2% M/M, +60.8% Y/Y
- Options ADV: Monthly average 54.6 million contracts; +1.5% M/M, +12.2% Y/Y

Market Metrics

In this section, we highlight the monthly market trends for volatility, price, and volumes.

Volatility (VIX)

- Monthly average 16.33
 - o -10.3% M/M
 - o +12.9% Y/Y
- Monthly peak on the 7th at 17.79, troughed on the 25th at 14.93



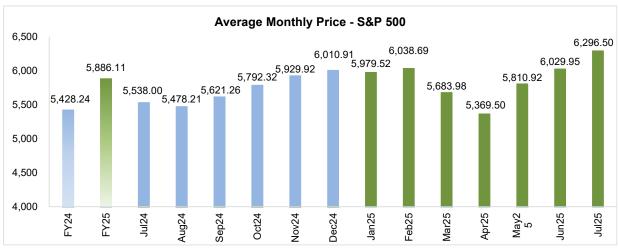
Source: Bloomberg, SIFMA estimates

Note: Data labels depict the start of the year, the last closing price, peaks/troughs for the year and month (if different from the other data points already labelled).

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S&P 500 Index: Price

- Monthly average 6,296.50
 - o +4.4% M/M
 - o +13.7% Y/Y
- Monthly peak on the 28th at 6,389.77, troughed on the 1st at 6,204.95





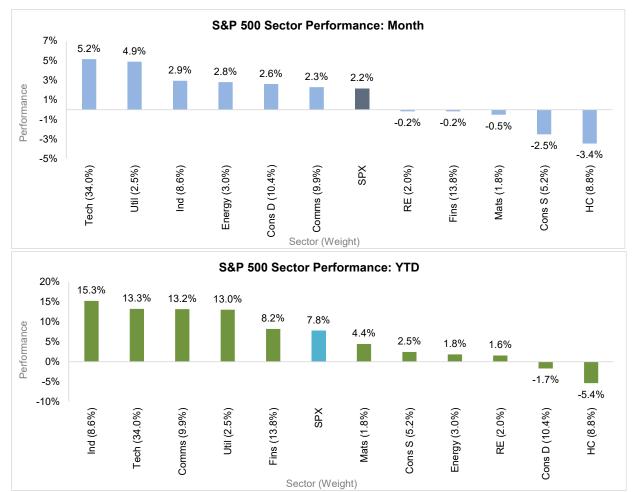
Source: Bloomberg, SIFMA estimates

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S&P 500 Index: Sector Breakout

Looking at market performance by sector, we highlight the following:

- Best performing sectors
 - Month = Technology at +5.2% and Utilities at +4.9%
 - YTD = Industrials at +15.3% and Technology at +13.3%
- · Worst performing sectors
 - Month = Healthcare at -3.4% and Consumer Staples at -2.5%
 - YTD = Healthcare at -5.4% and Consumer Discretionary at -1.7%



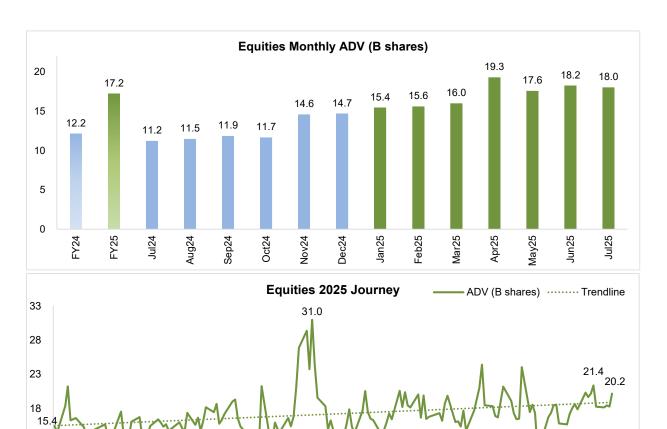
Source: Bloomberg, SIFMA estimates

Note: Cons S = consumer staples, HC = healthcare, Mats = materials, RE = real estate, Ind = industrials, Fins = financials, Tech = technology, Cons D = consumer discretionary, Comms = telecommunications, Util = utilities

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Equity Volumes (ADV)

- Monthly average 18.0 billion shares
 - o -1.2% M/M
 - o +60.8% Y/Y
- Monthly peak on the 24th at 21.4 billion, troughed on the 14th at 15.7 billion
- Monthly average off-exchange trading 51.8%, +0.4 pps M/M, +4.4 pps Y/Y



Source: Cboe Global Markets, SIFMA estimates.

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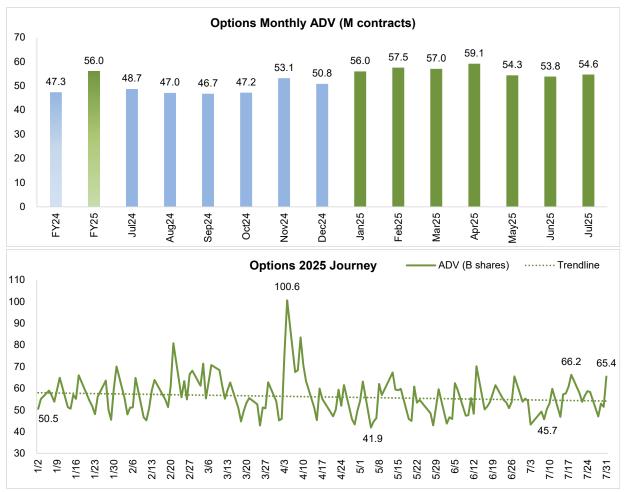
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Note: Data labels depict the start of the year, the last closing price, peaks/troughs for the year and month (if different from the other data points already labelled). When looking at troughs, we do not include days when the market closed early, unless it is the end of the month: July 3, November 28, and December 24.

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Options Volumes (ADV)

- Monthly average 54.6 million contracts
 - o +1.5% M/M
 - o +12.2% Y/Y
- Monthly peak on the 18th at 66.2 million contracts, troughed on the 8th at 45.7 million contracts
- Monthly equity options 50.1 million contracts (+2.0% M/M, +12.6% Y/Y), index options 4.5 million contracts (-3.1% M/M, +8.0% Y/Y)



Source: Cboe Global Markets, SIFMA estimates

Note: Data labels depict the start of the year, the last closing price, peaks/troughs for the year and month (if different from the other data points already labelled). When looking at troughs, we do not include days when the market closed early, unless it is the end of the month: July 3, November 28, and December 24

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