

Using Implied Volatility Rank and Percentile to Find Trading Opportunities

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Welcome!

I'm John Rowland

- ▶ Senior Market Strategist
- ▶ Head of Trading Education
- ▶ 35+ years of trading experience
- ▶ Natural Gas Floor Trader and Energy Broker



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Volatility

Historical Volatility measures how fast the underlying security has been changing in price. Historical volatility can be measured over various time frames to give the trader a sense of how volatile the underlying has been. It should be used for comparative purposes.

Implied Volatility is the options market's volatility prediction for the underlying security over the life of the option. Implied Volatility gives the trader an understanding of whether current volatility is relatively high or low compared to historical volatility and past implied volatility.

Implied Volatility Ranks & Percentiles

IV Rank

IV Rank is the at-the-money (ATM) average implied volatility relative to the highest and lowest values over the past 1-year.

If the IV Rank is 100%, it has been at its highest level over the past 1-year. An options strategy that looks to profit from a decrease in the asset's price or a reduction of IV may be in order. If the IV Rank is 0%, an options strategy that looks to profit from an increase in the asset's price or IV may be in order.

IV Percentile

IV Percentile is the percentage of days where implied volatility closed below the current ATM IV over the past 1-year.

How to Apply Rank and Percentile

- Looking at the IV Rank and IV Percentile helps traders determine whether the option's IV is relatively high or low and can assist you in determining an appropriate options strategy.
- Low IVs- Consider strategies that buy cheap premiums. i.e., Debit Spreads, Bull Call, Bear Put, and Straddles.
- High IVs- Consider strategies that collect premiums. i.e., Naked Puts and Covered Calls, Credit Spreads like Bull Put, Bear Calls, and Strangles.
- Using chart analyses and price percentages performance of the underlying security can help with the choice of strategy selection. Both for Directional and Non-Directional strategies.

The Effects of Implied Volatility on Options Prices

- **Vega** is the change in the option's price for a 1% change in the implied volatility.
 - If the IV increases, the price of the option increases.
 - If the IV decreases, the price of the option decreases.
 - All things being equal, Vega tells us how much.*
- **Delta** is the change in the option's price changes for every \$1 move up or down in the underlying security. Delta also represents the percentage probability that the option's strike price will expire in-the-money.
 - Higher implied volatility lowers the probability of an ITM strike expiring ITM, decreasing the delta.
 - Higher implied volatility increases the probability of an OTM strike expiring ITM, increasing the delta.

Final Thoughts

Implied Volatility is an essential component in determining the prices of options. Using IV Ranks and Percentiles can give the trader a relative perspective if the option is “cheap or expensive.”

However, implied volatility is unpredictable, and determining the right strategy requires diligence regarding historical volatility, long and short-term options, and the difficulty of predicting price movements of the underlying security.

Though volatility traders would agree, placing your position on the right side of volatility is half the battle.



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