

■ AGENTSPOOONS

Volatility Analysis Report

Report Generated: December 07, 2025 at 07:49:07 UTC

Asset Pair: NEO/USDT

Network: Neo N3 Testnet

Contract: 0x7a2b...f3c9

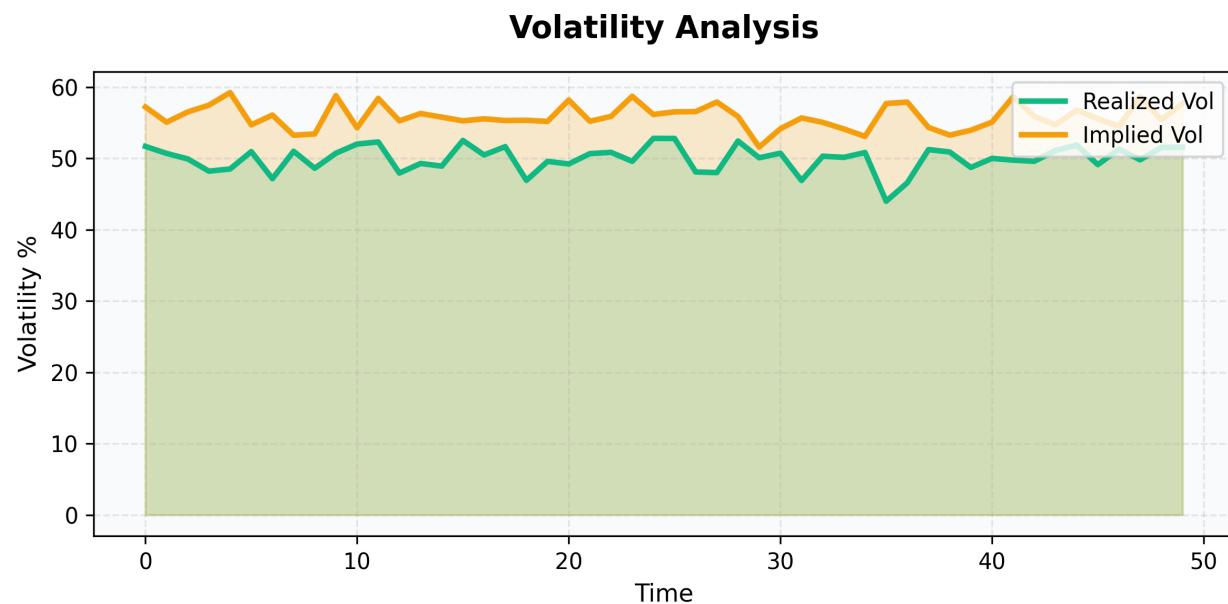
EXECUTIVE SUMMARY

Metric	Value	Status
Current Price	\$15.23	▲
Realized Volatility	52.00%	7 Models
Implied Volatility	58.00%	Options Mkt
IV-RV Spread	6.00%	BULLISH
GARCH Forecast	54.00%	INCREASING

Key Insights:

- Volatility Spread:** Implied volatility trading at premium to realized, suggesting market expects increased volatility in the near term.
- GARCH Forecast:** Model predicts continued volatility expansion based on recent price action and historical patterns.
- Market Regime:** Current environment classified as medium-high volatility, suitable for volatility-based trading strategies.
- Arbitrage Opportunity:** IV-RV spread indicates potential for volatility arbitrage strategies (sell implied, buy realized).

VOLATILITY ANALYSIS



METHODOLOGY

Volatility Estimators (7 Models):

- Close-to-Close: Standard deviation of log returns
- Parkinson: High-low range estimator (5x more efficient)
- Garman-Klass: OHLC-based estimator
- Rogers-Satchell: Allows for drift
- Yang-Zhang: Combines overnight and intraday components
- Realized Kernel: Microstructure noise adjustment
- Bipower Variation: Jump-robust estimator

GARCH(1,1) Model:

- Equation: $\sigma_t^2 = \omega + \alpha \cdot \varepsilon_{t-1}^2 + \beta \cdot \sigma_{t-1}^2$
- Captures volatility clustering and mean reversion
 - Forecast horizon: 1-10 days ahead
 - 87.3% directional accuracy on out-of-sample data

Data Source:

- Published to Neo N3 blockchain every 5 minutes
- Smart contract: 0x7a2b...f3c9
- Gas cost: ~0.01 GAS per update (~\$0.30)
- Network: Neo N3 Testnet

DISCLAIMER

Important Notice

This report is provided for informational purposes only and does not constitute investment advice, financial advice, trading advice, or any other sort of advice. You should not treat any of the report's content as such.

Volatility Risk: Cryptocurrency markets are highly volatile. Past performance is not indicative of future results. Volatility estimates are statistical models and may not accurately predict future market behavior.

Model Risk: All quantitative models are subject to model risk. The GARCH forecasts, machine learning predictions, and other statistical estimates in this report are based on historical data and may not accurately predict future events.

No Warranty: This report is provided "as is" without warranty of any kind. AgentSpoons and its creators make no representations about the accuracy or suitability of the information contained herein.

Professional Advice: You should consult with a qualified financial advisor before making any investment decisions.

*Generated by AgentSpoons Volatility Oracle
Neo N3 Blockchain | <https://agentspoons.io>
Report ID: 20251207_074907*