

Fractal Volatility Index for ALL : 0.442. Market Wide FVI:0.478

(0 - 0.33: Stable, 0.33 - 0.66: Moderate Volatility, 0.66 - 1: High Volatility)

Red: High Risk FVI zone, Orange: Medium Risk FVI zone, Green: Low Risk FVI zone



Verv Stock Analysis Report: The Allstate Corporation ALL FVI 0.442

Analysis Period: 2021-10-02 to 2026-10-02

The Fractal Volatility Index (FVI) is scaled between 0 and 1 reflecting the stock's overall volatility. A higher score indicates greater unpredictability and market instability.

Unlike traditional volatility indicators like VIX or Beta, FVI does not track short-term fluctuations—it detects hidden instability before it manifests in price swings.

FVI is a composite score that incorporates Lyapunov Exponent, Hurst Exponent, and Detrended Fluctuation Analysis (DFA).

Breakout Probability

Breakout Probability Score (BPS): 0.419

Breakout Probability Score (BPS) quantifies price momentum likelihood: BPS > 1.5 suggests high breakout potential, while BPS < 0.5 indicates consolidation.

(BPS > 1.5 High breakout potential - Strong momentum, watch for confirmation.)

(BPS 0.5 - 1.5 Moderate breakout likelihood - Possible move, monitor closely.)

(BPS < 0.5 Low breakout probability - Likely consolidation or range-bound.)

Request ID: FVI

Account ID: WeeklyReport

Fractal & Statistical Analysis

FVI Score: 0.442 (Fractal Volatility Index FVI)

DFA Result: 0.4591 (Detrended Fluctuation Analysis)

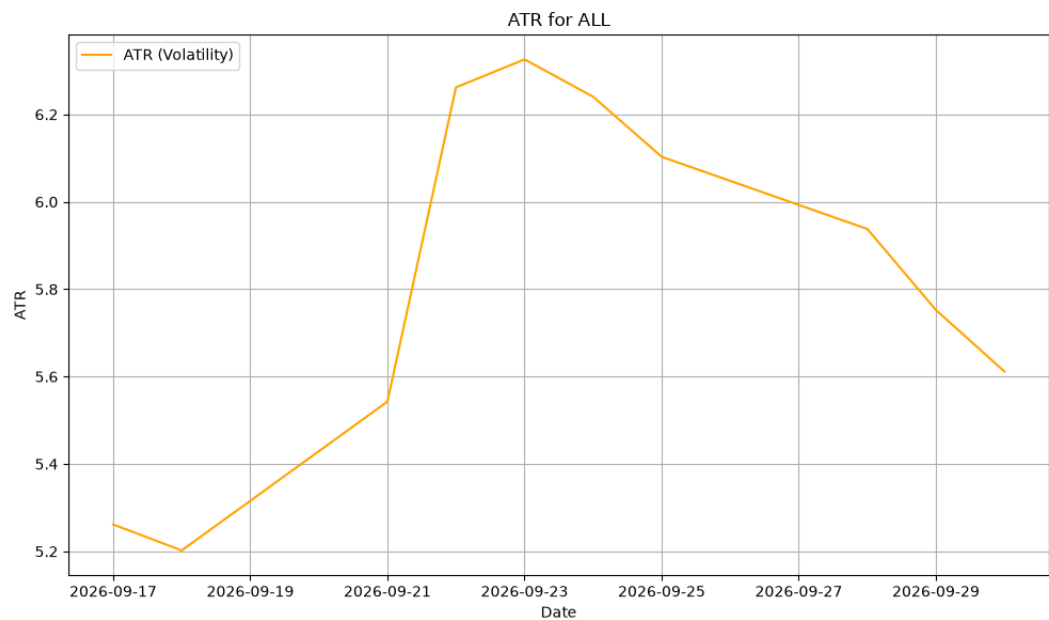
Lyapunov Exponent: 0.0157 (Measures chaos and predictability)

Hurst Exponent: 0.4547 (Indicates trending or mean-reverting behavior)

Breakout & Recent Price Change Analysis

Breakout Statement: No strong breakout signal detected: The latest closing price of 221.86 is within the Bollinger Bands range (216.53 - 272.94). On a 10-day average basis, the mean closing price 232.97 is also below the mean Bollinger Lower Band 233.55, reinforcing the bearish trend.
Latest ATR: 5.6117

Average True Range (ATR)



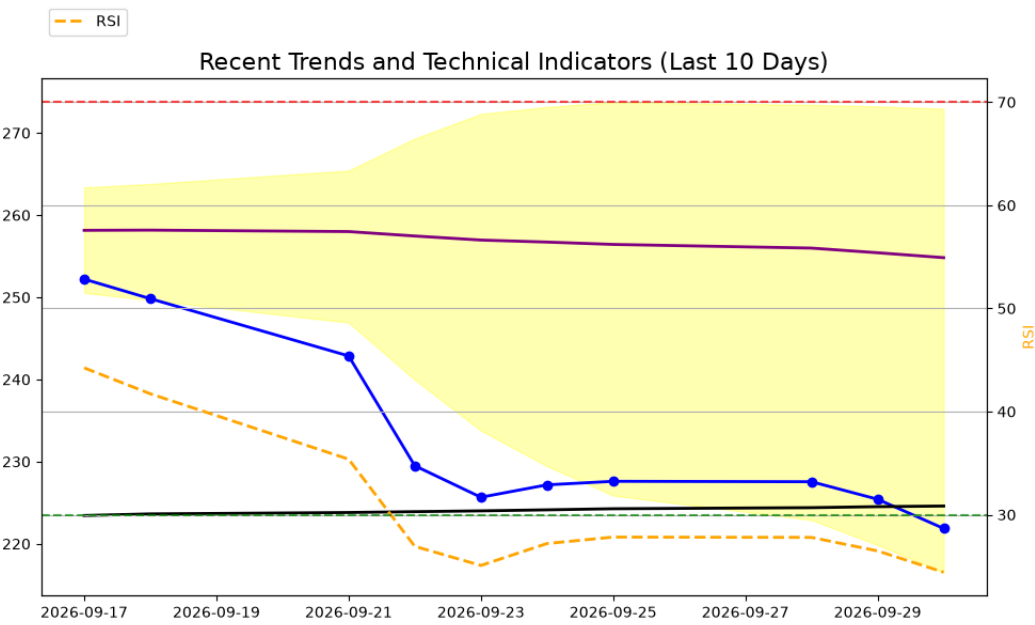
The ATR measures the recent price volatility of a stock, calculating the average range between its high and low prices over a given period (usually 14 days). A higher ATR indicates greater market volatility, and a lower ATR indicates less volatility.

Low ATR (below 2): Stable stock, Moderate ATR (2-5): Mild volatility, High ATR (above 5): Highly volatile stock

Technical Indicators

Technical indicators are based on historical price and volume data used in technical analysis to forecast financial market direction. They help identify trends, momentum, volatility, and potential entry and exit points in the market.

Technical Indicators



Left y axis - Stock Price. Right y axis - RSI range values (30 - 70)

Close Price(blue line with circles) - Key indicator of the stock's price action and is often used to identify trends or patterns. A rising close price generally indicates an upward trend, while a falling close price shows a downward trend.

SMA_50 and SMA_200 - (purple line SMA_50, black line SMA_200) Simple Moving Averages (SMA) calculated over 50 and 200 periods. Helps identify the direction of stock price trend.

Bollinger Bands - (shaded in yellow): Bollinger Bands consists of upper, middle and lower prices. The middle line is the moving average. Price reaching the upper band can indicate an overbought condition, suggesting the stock might be due for a pullback. Price touching the lower band could indicate an oversold condition, suggesting a potential buying opportunity. When the price moves outside the bands, it may indicate extreme conditions.

Relative Strength Index RSI - (orange dotted line): The RSI is a momentum oscillator that measures the speed and change of price movements. An RSI above 70 suggests the stock is overbought and might be due for a pullback. An RSI below 30 suggests the stock is oversold and might be due for a rebound. An RSI in between indicates a more neutral market condition.

AI Executive Assessment

1. Volatility Structure

The Allstate Corporation (ALL) has a Fractal Volatility Index (FVI) of 0.4417831366104816, which is slightly below the market-wide FVI of 0.478. This indicates a relatively lower level of structural instability for ALL compared to the broader market. The Lyapunov Exponent of 0.015743901583532862 suggests a certain degree of sensitivity and divergence within the system, while the Hurst Exponent at 0.4546810920913761 is slightly below 0.5, potentially indicating anti-persistent behavior in the stock. The DFA value of 0.45906163339129985 measures the scale-dependent correlation structure, but does not independently predict volatility or price direction.

2. Breakout Evidence

The Breakout Probability Score (BPS) for ALL is 0.419498133589732, which does not provide strong evidence of a breakout. The latest closing price and the 10-day average closing price are both within the Bollinger Bands range, reinforcing the absence of a strong breakout signal.

3. Participation and Technical Context

The volume of ALL has decreased by 6.1135521259257075%, and the latest Average True Range (ATR) is 5.611722396050362. These figures do not provide a clear indication of investor sentiment or potential price movement.

4. Macro and Sector Context

The Gold FVI is 0.593608, the FX FVI is 0.434301, and the TWI FVI is 0.469352. These values suggest varying levels of structural instability in their respective series, but do not provide specific insight into geopolitical or investor behavior. The GHG score is not available for the Financial Services sector, which limits the analysis of emissions-related variability.

5. Risk Interpretation

The evidence most strongly supports a state of moderate uncertainty for ALL, given the relatively lower FVI compared to the market, the absence of a strong breakout signal, and the slightly anti-persistent behavior indicated by the Hurst Exponent. However, the stock's structural risk does not directly translate into price direction.

6. Monitoring Implications

Given the current state of moderate uncertainty, it would be advisable to continue monitoring the FVI, BPS, and the Hurst, Lyapunov, and DFA values for any significant changes. The volume change and ATR should also be observed for potential shifts in investor participation.

FINAL TAKEAWAY

The Allstate Corporation (ALL) is currently in a state of moderate uncertainty, with structural instability slightly below the market average and no strong evidence of a breakout. The key indicators to monitor going forward are the FVI, BPS, and the Hurst, Lyapunov, and DFA values, along with volume changes

and the ATR, to better understand potential shifts in the stock's volatility structure and market state.

Stock Information

Market Capitalization: 56099066000, Industry: INSURANCE - PROPERTY & CASUALTY, Latest Volume: 3879112, Description: The Allstate Corporation, Sector: FINANCIAL SERVICES, Price to Book: 1.831, Trailing PE: 4.443, Forward PE: 8.27, Enterprise to Revenue: 0.962, Profit Margins: 0.19

The trading volume has changed by -6.11% over the past week, indicating potential shifts in market sentiment. Please factor this into the volatility and risk analysis.

Beta measures stock volatility relative to the overall market: 0.15

Beta of 0.15 suggests low volatility compared to the market.

Stock Investment Character Report

Analysis based on supplied stock characteristics and market context.

Investment Character: Steady Operator

Resilience: 62%

Momentum: 25%

Structural Stress: 35%

Narrative Dependence: 20%

Confidence: 58%

Calculated Metrics:

- Price-Volume Divergence: 0.000

- Volatility Dissonance Index: -0.659

Evidence:

- Structural instability is moderate and below the market-wide FVI, while market sensitivity is low versus the market.

Indicators: Fractal Volatility Index=0.442, Market-wide FVI=0.478, Beta=0.15

Supports: Resilience

- Recent absolute trading-range volatility is high by threshold, with no confirmed breakout and a noted bearish tilt.

Indicators: Latest ATR=5.611722396050362, Breakout Probability Score=0.419498133589732, Breakout statement=No strong breakout; price within Bollinger Bands; 10-day mean below mean lower band indicating bearish trend

Supports: Momentum

- Positive profitability and undemanding valuation multiples reduce reliance on speculative narratives.

Indicators: Profit margin=0.19, Trailing P/E=4.443, Price-to-book ratio=1.831, Enterprise value to revenue=0.962

Supports: Resilience

Assessment:

Allstate exhibits moderate structural volatility with very low market beta, pointing to a generally steady profile despite recent high absolute price swings. Momentum evidence is weak and tilts bearish, with no breakout detected. Profitability and undemanding valuation support a grounded, non-narrative character. Reconciling signals: moderate FVI and low beta support resilience, while elevated ATR tempers but does not overturn the steady profile.

Limitations:

- ATR lacks normalization to price history, limiting comparability of recent volatility magnitude.

- EPS fields are inconsistent (trailing EPS reported as 0 alongside a nonzero trailing P/E), constraining operating clarity.

- No revenue growth, cash flow, reserve adequacy, or underwriting cycle data are provided, limiting fundamental depth.

- Breakout assessment is based on current band placement without band-width or longer trend context.

Medium-Term Fit:

Potential fit for a thesis favoring lower-beta financial exposure with established profitability and reasonable valuations, accepting episodic volatility within the property & casualty insurance cycle.

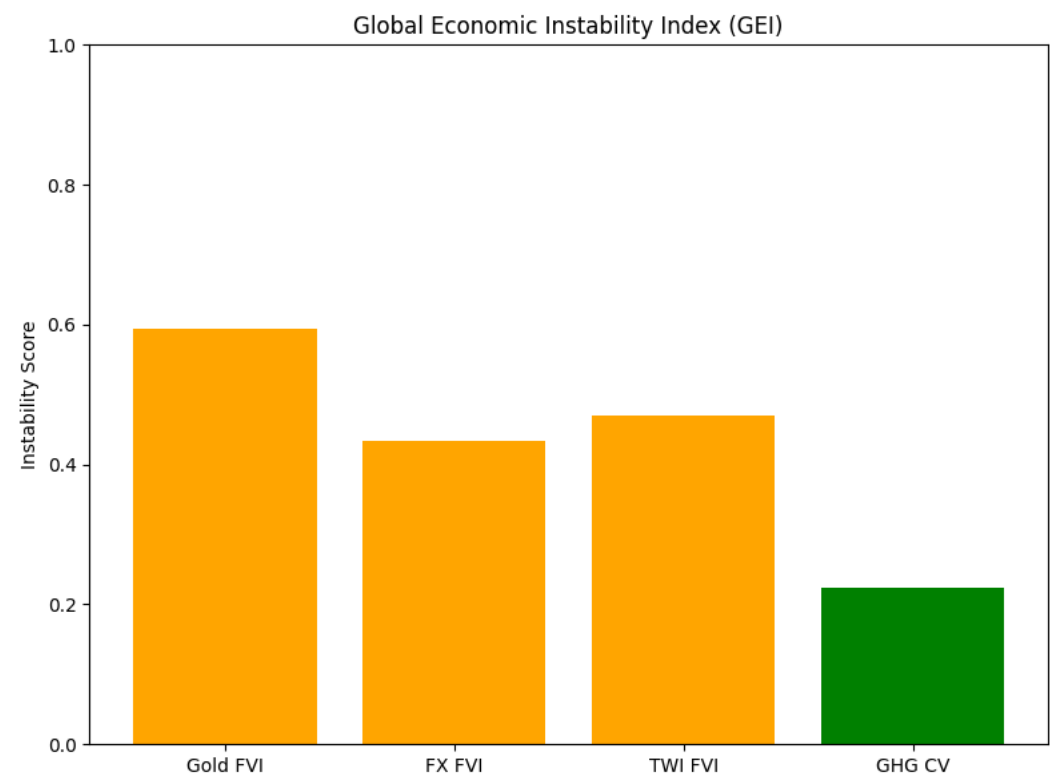
Fractal Volatility Indices

Global Geopolitical Fractal Volatility (Gold, Forex, TWI (Tariffs) and GHG Emissions)

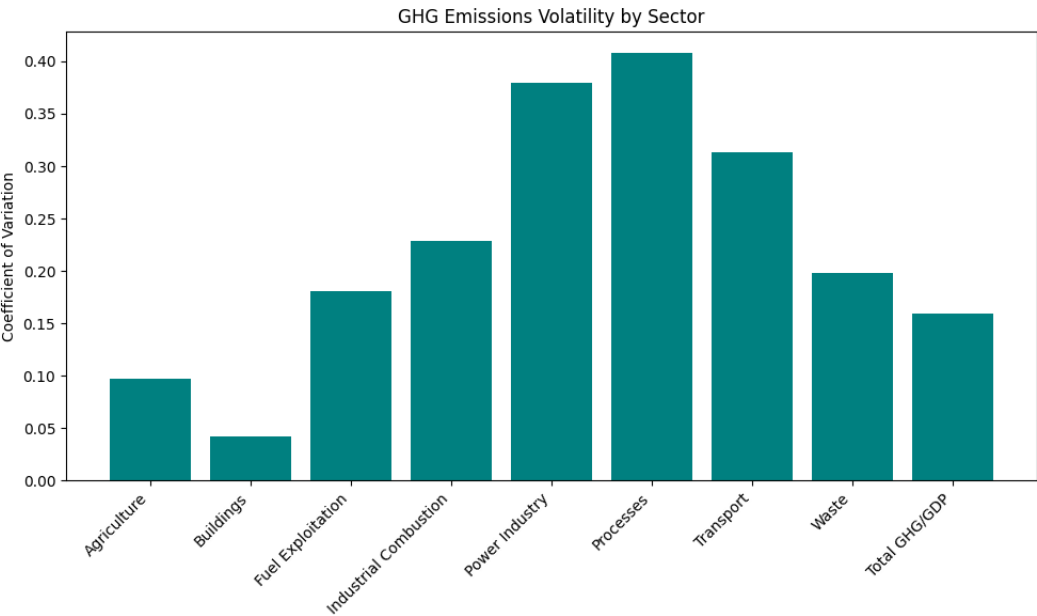
FVI_GOLD: 0.593608 => Moderate gold volatility indicates increased investor caution
FVI_FX: 0.434301 => Moderate FX volatility indicates ongoing currency-market adjustment
FVI_TWI: 0.469352 => Moderate trade-weighted volatility indicates some external-sector adjustment
GHG_CV: 0.223036 => Moderate GHG sector variability indicates some sector-level carbon-risk dispersion

Primary Risk Driver: Gold volatility is a good proxy for global geopolitical risk. 0.593608.

Global Geopolitical Volatility



Volatility Indicators of GHG Emissions by Industry and GDP



No GHG score available for Financial services sector.

Disclaimer: The Fractal Volatility Index (FVI) measures structural market instability, not short-term price direction. High FVI (red dot) does not necessarily indicate a price breakout—rather, it signals unpredictable price behavior and potential structural shifts. While market instability can precede significant moves in either direction, Verv Stock Reports do not predict price trends but offer insight into underlying volatility patterns. Investors should interpret FVI alongside fundamental and technical analysis before making decisions.

_____END OF REPORT_____