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The Forecast Quality of Cboe Implied Volatility Indexes

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Abstract


We examine the forecast quality of Chicago Board Options Exchange (CBOE) implied volatility indexes based on the Standard and Poor's 100 and Nasdaq 100 stock indexes. We find that the forecast quality of CBOE implied volatilities for the S&P 100 (VIX) has significantly improved in recent years, and implied volatilities for the Nasdaq 100 (VXN) provide even higher quality forecasts of future realized volatility. CBOE implied volatilities appear to contain significant forecast errors in the period 1988-94, but we find no indication of significant forecast errors in the period 1995-2002.

Keywords: options, implied volatility, volatility forecasting

JEL Classification: C13, C22, C54, G13, G14

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29 References

1. T G Andersen, T Bollerslev
Answering the sceptics: Yes, standard volatility models do provide accurate forecasts
International Economic Review, volume 39, p. 885 - 905
Posted: 1998
Crossref (<https://doi.org/10.2307/2527343>)
2. S Beckers
Standard deviations implied in option prices as predictors of future stock price variability
Journal of Banking and Finance, volume 5, p. 363 - 381
Posted: 1981
Crossref ([https://doi.org/10.1016/0378-4266\(81\)90032-7](https://doi.org/10.1016/0378-4266(81)90032-7))
3. J F O Bilson
An assessment of alternative models of financial market volatility. forthcoming in Handbook of Risk
Posted: 2003

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4. F Black, M Scholes
The Pricing of Financial Instruments and Financial Derivatives
Journal of Political Economy, volume 8, p. 637 - 654

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