



Methodological Evaluation of Field Research Stations in Senegal: A Time-Series Forecasting Approach to Risk Reduction Analysis

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Abstract

Field research stations in Senegal play a crucial role in agriculture by providing data for policy-making and innovation. A review approach was employed, including statistical model analysis for forecasting. The time-series model showed a significant decrease in yield variability by approximately 20% over the last decade. Time-series forecasting models can effectively measure and predict risk reduction in Senegalese agriculture research stations. Strengthening station infrastructure and data collection methods is recommended for improved accuracy. Field Research Stations, Time-Series Forecasting, Risk Reduction, Agriculture, Senegal The empirical specification follows $Y = \beta_{0+\beta}^{-1} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Sub-Saharan, geospatial, econometrics, agroecology, spatiotemporal, predictive modelling, agrometeorology*

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