Long Term Forecast of Crop Yield using Hybrid Linear Time Series Approach

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Abstract—An effort has been made to get long term forecast of crop yield more precisely with the help of combination of linear time series approach and non-linear autoregressive model. Linear time series approach has been used to get short term forecast of crop yield which is eventually corrected through the forecasted residuals obtained by non-linear autoregressive model. The same has been repeated on the short term forecasted crop yield as base data for eventually getting long term forecast of crop yield.

Keywords: linear time series approach, nonlinear autoregressive model, crop yield.