

An Analytical Approach to the Trend Variation of Wind Flow in Pantnagar, Uttarakhand

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ABSTRACT

The agricultural production is primarily based upon different parameters like sun shine, wind speed, rainfall, temperature, humidity etc. and the response of crop is mostly affected by these factors. Though, most of these factors, as such, cannot be controlled, yet variations due to these factors can be studied to explore the impact of such uncontrollable parameters on the agricultural yields. Numerous studies have been conducted on finding the effect of these factors on crop responses. Wind speed, which may be considered as one of the most important extraneous factors, is having a direct impact on the growth of crops. To have an idea of future trend of the wind speed, we need to study the past long-term data of the wind speed. In the present study, an attempt has been done to investigate a trend variation analytical approach on wind speed in Pantnagar, Uttarakhand.

Key Words: Wind Speed, Mann–Kendall's test, Sen's Slope Estimator.