

ORIGINAL RESEARCH ARTICLE

Validation of harvesting time in vetiver crop for enhancing root and oil yield in Tsunami affected coastal regions of Tamil Nadu

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ABSTRACT

The metabolism of plants is influenced by climatic factors both quantitatively and qualitatively. The influence of climatic conditions on harvesting, oil recovery, and yield of vetiver grown in farmer's field during 2017-2019 at Nochikadu, Cuddalore district, Tamil Nadu was examined. The results suggest that essential oil production in vetiver is closely correlated with plant metabolism, influenced by changes in the environment, mainly temperature, rainfall, relative humidity, and sunshine hours. The oil recovery was found to vary in different harvesting months, ranging from 0.65-1.45%, and the root yield vary between 5.13-8.0t/ha. The maximum oil recovery and root yield were noticed in April and September. This study provides information for timely agro-technological operations during the planting and harvesting seasons for maximum root yield and oil recovery of vetiver crop in Tsunami affected coastal regions of Nochikadu, Cuddalore, District, Tamil Nadu.