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Prediction of agro meteorological rice yield models for Surat district, India

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A gro meteorological rice yield prediction models are developed in this paper for Surat district of Gujarat state, India. Agro meteorological rice yield prediction models such as agromet yield, agromet spectral yield and agromet spectral trend yield were developed by using multiple-linear regression analysis and on the basis of examination of coefficient of determination (R²), and relative deviation (RD) values, resulted from different agromet models, the best agromet subset was selected to develop agromet-spectral trend-yield model. Tmin, Tmax and HTU (Heliothermal Units), NDVI (Normalized Difference Vegetation Index) and TPY (Trend Predicted Yield) are the best agromet subset to incorporate in agromet spectral-trend-yield models.

Biography

Vivek L Manekar is currently an Associate Professor in Civil Engineering department at S V National Institute of Technology, Surat, India. He completed his Master's and PhD from VNIT, Nagpur. His broad areas of research are "Soil weather modeling, sediment transportation and climate change impacts on water resources".

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