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Analysis of metrological drought for Latur and Osmanabad district of Maharastra

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Department of Basic Science and Computer Technology, College of Agriculture Engineering and Technology, Vasantrao Naik Marathwada Krishi Vidyapeeth, PARBHANI (M.S.) INDIA Email : patl.ravi4590@ gmail.com ■ ABSTRACT : Drought is a natural hazard that has significant impact on economic, agricultural, environmental and social aspects. The main objective of the research reported herein has been to develop an approach to analyse of meteorological droughts based on annual precipitation data. If 'A' is the mean weekly rainfall for 22 years of data from 1991 to 2012, then a week receiving rainfall less than 75 per cent of 'A' valueis defined as drought week and greater than 125 per cent of 'A' valueis defined as surplus week. Week having rainfall between 75 per cent of 'A' value and 125 per cent of 'A' value is considered as normal week. The rainfall distribution of Latur and Osmanabad district of Maharashtra state is quite erratic in space and occurrence of drought is common. In this study 22 years (1991-2012) of rainfall data of Latur and Osmanabad district have been analyzed on yearly, monthly and weekly basis for predicting the water drought, normal and surplus event for crop planning in region. Weekly drought, normal and surplus events give a more precise idea about crop planning than yearly and monthly events. The analysis has reveals that the percentage of drought weeks is more than normal and surplus weeks. It has been also reveals that there is a need of supplemental irrigation during periods of water scarcity.

■ KEY WORDS : Drought, Rainfall analysis, Scarcity

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