Probability distribution of rainfall for Kolhapur region

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SUMMARY : Rainfall is one of the most important natural input resources to crop production and its occurrence and distribution is erratic, temporal and spatial variations in nature. Most of the hydrological events occurring as natural phenomena are observed only once. One of the important problem in hydrology deals with the interpreting past records of hydrological event in terms of future probabilities of occurrence. Rainfall analysis is a prerequisite for proper designing of any soil and water conservation structure. Daily rainfall data will be collected from Department of Agronomy, College of Agriculture, Kolhapur for the year 2012-13. For this study Normal, Log-normal and Gumbel distributions of probability are used. From the analysis it was concluded that, Log- pearson type III distribution was found to be good for probability distribution of rainfall in the Kolhapur region.

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