



## RESEARCH PAPER

# Rainfall and rainy day trends at Aurangabad district of Maharashtra state

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**Abstract :** Rainfall data of 34 years (1983-2016) was obtained from agro meteorological observatory, water and land management institute (WALMI) Aurangabad and was analyzed for rainfall and rainy days trends. The trend indicates that the tract received a mean annual rainfall of 745.4 mm in 43 rainy days with maximum contribution (83.5%) from south west monsoon (June to September). July was the rainiest month with 165.9 mm average rainfall. In last fifteen years, occurrence of slight drought and moderate drought has been increased. The annual rainfall variability during last 34 years (1983-2016) indicated that, site received 22 years normal rainfall (- 0.21 to 55.49 %), faced 6 years of slight drought (- 12.92 to -25.46 %) and 6 years moderate drought (-33.91 to -44.42%).

**Key Words :** Rainfall trend, Rainy days, Moderate drought, Normal rainfall

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