RESEARCH PAPER

Inter-relationships between rainfall distribution and groundnut yield in Bhavnagar and Junagadh districts of Gujarat state

■ R.S. PARMAR, H.K. PATEL[1], D.K. PARMAR[1] AND N.M. VEGAD[1]

AUTHORS' INFO
Associated Co-author :
[1]College of Agricultural Information Technology, Anand Agricultural University, ANAND (GUJARAT) INDIA

Author for correspondence:
R. S. PARMAR
College of Agricultural Information Technology, Anand Agricultural University, ANAND (GUJARAT) INDIA
Email: rsparmar@aau.in

ABSTRACT : Groundnut crop in Saurashtra region of Gujarat is predominantly grown as rainfed crop in *Kharif* season. The year to year fluctuation in the crop yields are mainly attributable to the variation in rainfall and its distribution. In order to study inter-relationships between rainfall distribution and groundnut yield in Bhavnagar and Junagadh districts of Gujarat state, correlation and regression analysis techniques were employed. The district-wise average yield data of groundnut and daily rainfall data were used over a period of 44 years *i.e.* from 1970-2014. Five broad approaches were tried to study the inter-relationships between rainfall distribution and groundnut yield. They were (1) aggregate rainfall, (2) monthly rainfall (3) fortnightly rainfall (4) week-wise rainfall and (5) crop phase-wise rainfall. In general it could be inferred that that the quantum of rainfall during different phenophases of the groundnut had appreciable influence on groundnut productivity.