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

■ R.S. PARMAR, H.K. PATEL¹, D.K. PARMAR¹ AND N.M. VEGAD¹

AUTHORS' INFO

Associated Co-author :

¹College 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 the quantum of rainfall during different phenophases of the groundnut had appreciable influence on groundnut productivity.

KEY WORDS : Inter-relationships, Rainfall, Distribution, Yield, Groundnut

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