

CONSTRAINTS IN DRIP IRRIGATION SYSTEM FOR POTATO IN RAJASTHAN

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ABSTRACT

This study tries to find out the major constraints faced by the farmers in zone Ib of Rajasthan. Zone Ib comprises of two districts, namely Sri Ganganagar and Hanumangarh districts known as the granary of Rajasthan. In 2019-20, Sri Ganganagar district and Hanumangarh districts cover 221.53 hectares and 103.96 hectares of land, respectively. The study was based on determining the constraints faced by farmers following drip irrigation in potato crop. The study was based on descriptive and exploratory research design which comprised of both primary and secondary data. Multistage stratified random sampling was used for the research. Eight major constraints faced by the farmers in drip irrigation system, were identified. Pre-structured schedule containing both open and close ended questions was prepared for the farmers to rank the constraints according to their preferences. The major constraint was found to be 'high initial cost for drip irrigation (Garrett score: 70.50)', followed by 'requirement of timely maintenance (Garrett score: 62.03)', 'lack of technical know-how (Garrett score: 56.33)', 'lack of adequate training (Garrett score: 53.93)', 'non-availability of technical guidance in time (Garrett score: 46.20)', 'non-availability of quality inputs (Garrett score: 39.03)', 'inadequate & uncertain of power supply (Garrett score: 36.97)' and 'unsuitable climate (Garrett score: 35.00)'. There is a need to educate farmers to adopt drip irrigation as water is a limiting resource.

KEYWORDS: *Drip Irrigation, Challenges, Rajasthan*