



RESEARCH PAPER

Prioritization of major constraints in micro-irrigation technology adoption encountered by the cotton growers in North Maharashtra

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Abstract : Proper utilization and efficient development of the limited water resources is the milestone for food security for the entire world. Micro-irrigation technology facilitates improvement in water saving, water use efficiency, yield of the crop, investment in and short payback periods. The data was collected from 60 adopter and 60 non-adopter farmers of Dhule and Nandurbar districts of Maharashtra, India by personal interview through a pre-tested questionnaire. The constraints faced by the farmers in adoption of micro-irrigation technology were identified and put before the sample farmers and the farmers were asked to list priority-wise major constraints they were facing in micro-irrigation technology adoption for construction of a Responses-Priority Index (RPI). High initial investment of micro-irrigation system, clogging and choking of emitters, unavailability of subsidy on time, lack of technical knowhow of micro-irrigation system and complex and lengthy procedure of loan were most perceived constraints with RPI values of 0.97, 0.90, 0.77, 0.70 and 0.68, respectively influenced the decision of micro-irrigation technology adoption.

Key Words : Constraints, Responses-priority index (RPI), Micro-irrigation system, Cotton

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