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"Adaptation Measures to Combat Climate Change Impacts on Agriculture: An Empirical Investigation in the Chambal Basin"

Kawadia, Ganesh, and Era Tiwari

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This study is based on the empirical investigation of the climate change adaptation measures adopted by the farmers in the Chambal basin. The adaptation measures were analysed after investigating the nature and impact of climate change in the region. Four representative districts were selected using control sampling. A representative sample of farmers was selected through stratified snowball sampling technique. Descriptive statistics and case study methods were used for results and analysis. Detailed irrigation profiles of the farmers were traced. The moisture index was calculated based on secondary data. A sampling survey method of investigation was used in the study. This paper also presents the context of maladaptation of monoculture in the region and severe groundwater depletion associated with this practice. The study directs policy to strengthen water-harvesting measures in the region to facilitate the adaptation measures for coping with the effects of climate change on agriculture. (Article abstract)

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