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Socio-Economic Analysis of Water Saving Technologies in Agricultural Sector

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Abstract : Considering the importance and scarcity of water resources, the efficient management of water resources is of great importance. In the agriculture sector, farmers are facilitated with various practices and technologies to encounter water insufficiency. This study aims to assess socio-economic factors affecting the application of water-saving technologies. A Logit method was employed to examine the impact of different variables on the use of water-saving technology. The required data was gathered from a sample of 204 farmers in 2021 in Alborz Province in Iran. The results indicate that different variables such as crop price variability, water sources, farm size, income, education, experience, membership in cooperatives have positive effects, and variables such as age and number of plots have negative effects on the probability of applying modern water-saving technologies.

Keywords: socio-economics, water, irrigation, water saving technologies, scarcity

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