

The Behavior of Water User Union's Members in their Implementation of Improved Irrigation Techniques in Bustan Area, Beheira Governorate

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Abstract

This research aimed to identify farmers' knowledge, attitudes, and practices related to rationalizing and using improved irrigation water techniques, the main problems facing farmers in this regard and suggested solutions. The research sample rated to 320, and was selected from 4 areas in Bustan, Beheira governorate. The research data was collected by personal interview using a questionnaire designed for this purpose, after pre-tested on 15 farmers off the sample. Percentages, frequency, averages, standard deviation, internal validity, Cronbach's alfa test for data analysis.

The main results indicated that: knowledge level of most farmers was either low or moderate for 80% of them. Their attitude towards using technical techniques was either neutral or negative for 62% of them. Interviewees' behavior related to extension recommendations to rationalize irrigation water techniques and methods was low. There was a clear shortage in using modern irrigation methods in the research area. The main problems were: water shortage in summer, and uncleaning the water channels.