



**A STUDY FOR SOME FACTORS AFFECTING ON FARMERS RATIONAL
USE OF WATER IRRIGATION IN NEW VALLEY GOVERNORATE**

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ABSTRACT

The recent study aims to: identify the degree of farmers implementations for the recommendations of the technical rationalization of water use in New valley Governorate. In addition, identifying the independent variables affecting the degree of farmers implementations for the recommendations of the technical rationalization of water use as a dependent variable.

In order to accomplish the study objectives, new valley Governorate was selected as a filed study. A systematic random sample of 212 farmers was selected. This sample represents about 5% of the total farmers in three villages in New valley Governorate.

A questionnaire was designed and collected using the personal interview (after it was pre-

tested) during may 2011. Then, the data were tabulated and analyzed by using simple correlation coefficient, stepwise regression.

The study finding showed that about 14% of the total sample have low level of implementations for the recommendations of the technical rationalization of water use. Medium category represents about 50%, and high category of implementations for the recommendations of the technical rationalization of water use represents about 36% of the total sample.

Results revealed by using stepwise regression showed that three variables affected the degree of implementations for the recommendations of the technical rationalizations of water use, and these variables explained about 51% of the total variance of the implementations for the recommendations of the technical rationalization of water use.

Those variables were: farmland holding size, respondent attitude towards the extension activities, finally respondent degree of formal social participation.

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