Abstract

The study aims to: defining the knowledge needs of respondents in maintenance of the Agricultural Tiled Drains. defining implementation needs of respondents in maintenance of the (ATD). defining the most important factors affecting both of the knowledge and the implementation needs of respondents in the maintenance of the (ATD). defining the respondents awareness of the importance of the recommendations concerning the maintenance of the (ATD). determine relative importance of information sources of the maintenance of the (ATD). defining agricultural extension service delivered to farmers in the maintenance of (ATD) from viewpoint of respondents and extensionist of (ATD). defining the most important problems face the respondents in the maintenance of the (ATD) from the viewpoint of respondents and the extensionist of (ATD) and their suggestions to solve it.

Study was conducted in Fayoum governorate. Itsa and Tameya districts were chosen according to the executed nets. One village was chosen similarly in both districts; kalamshah in Itsa and kasr rashwan in Tameya. A random systematic sample of 230 farmer was chosen.

In terms of respondents characteristics. findings indicated that 23.9 % of respondents had a neutral attitude towards the maintenance of ATD . and majority of respondents( 70% ) were low in exposure to information resources. and ( 73.5% ) of them had used of the information resources . Neighbors . relatives and farmers leaders were the most important of information sources of the (ATD). as mentioned by 73.9% and 73% respectively.

The majority of respondents mentioned that the extention system deliver few service to them (92.1%).

The problems which farmers faced from their viewpoint were represented in: The people in charge uncaring of solving problems of ATD. the ineffectiveness of the association of ATD users. and the irregular maintenance of ATD. where their percentages were 79%. and 73.9% respectively.

As for respondents extentions needs. findings indicated that the majority of respondents (91%) lie in the category of high knowledge needs. and the majority of respondents (87.8%) lie in the category of high implementation needs.

Finding indicated a significant relationship between knowledge and implementation need degrees of farmers concerning the maintenance of (ATD). and the next variables: degree of exposure and utilization of information sources. the respondents’ awareness of the importance of recommendations concerning the maintenance of ATD. while there was significant relationship
between the degree of knowledge need and the number of years of ATD execution. and also a significant relationship between the degree of knowledge need and the attitudes towards maintenance of (ATD).

Statistical analysis indicated that awareness of the importance of ATD, attitudes towards ATD period of applying (ATD) were the most factors affecting the dependent variable as contributed with 52.9% of variance. findings reported that awareness of the importance of covered drainage and utilize of the information sources were the most important factors affecting the dependant variable as contributed with 18% of variance

Finding indicated that the roles of the ATD extortionists after executing nets of the ATD were:

Holding seminar for farmers. monitoring and evaluation. As for problem facing them it were: shortage of transportations and unavailability of pamphlets and posters. in addition to shortage of farmer awareness in some issues like preferring the uncovered drains. neglecting maintainance of nets and breaking the chambers.

ATD = Agricultural Tiled Drains