Effective Factor on Farmers Attitude toward Multifunctional Agriculture Concepts

Niloufar Asimi*,

The principle aim of this study was to analyze the knowledge levels of Shanderman's farmers on sustainable management of agricultural water resources. The population consisted of all farmers of Shanderman district, Masal county (n = 4908). The sample size (n = 209) was determined by using Bartlett Minimum Sample Size Table for the given population and cluster sampling method was applied to them. The questionnaire was reviewed by a panel of experts for face and content validity. A preliminary test was used to obtain the reliability of the research tool and the Cronbach's alpha coefficient was measured 0.84. Collected data was analyzed using SPSS software. The findings of the f-test indicated that there is no statistically significant difference between the effects of individual, agronomic, and economic characteristics of farmers including the different levels of variables such as age, education level, number of households, experience in agriculture, source of income, ownership forms, size distribution of farms, harvest rate on their knowledge of water resource management in agriculture at the error rate of 5%. In addition, results of t-test demonstrated that there were not significant relationship between individual, agronomic, economic and educational-extension characteristics such as sex, agricultural insurance, bank facilities, drought loans, government support and participation in educational-extension programs and the farmers' knowledge of water resource management in agriculture at the error rate of 5%. According to the obtained results, the knowledge level of farmers in the studied facilities was assessed to be high regarding the optimal management of water resources. These results also revealed that the knowledge of the farmers of Shanderman district has been independent of individual, agronomic, economic and educational characteristics, and none of these factors influence on their knowledge.

Keywords : Knowledge, Sustainable Management, Agricultural Water Resources