

DIFFUSION OBSTACLES OF SOME AGRICULTURAL BIOLOGICAL FERTILIZERS BETWEEN THE FARMERS IN KAFRELSHEIKH AND ELBEHEIRA GOVERNORATES

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ABSTRACT

This research aims mainly to identify diffusion Obstacles of some agricultural biological fertilizers, through determining the differences between the average of diffusion Obstacles degrees of some agricultural biological fertilizers in the two research areas, determining the relative importance of the diffusion Obstacles of some agricultural biological fertilizers and identifying the suggestions of the farmers respondents to overcome these obstacles.

The research was conducted in Kafrelsheikh and Elbeheira governorates. It was selected Beila district from Kafrelsheikh governorate and the Etai Elbaroud district from Elbeheira governorate, they were selected randomly. By the same criteria it was selected two villages from each district: these villages were Al-Arnab & Al-Shotoot from Beila district and El-Hawanem & al- Sha'ariya from Etai Elbaroud district. From the four villages, it was selected a regular random sample with 10% of the research population which amounted to 2827 respondents (153 respondents from the villages of Bila district +129 from the villages of Etay El Baroud district). The field data was collected by using a interviewing personal questionnaire during May and June 2017.

Frequency, percentage, arithmetic mean, weighted mean, standard deviation, and "t- Test " were used to explain and interpret the results.

The most important research results were as follows:

- There was differences between the average of diffusion Obstacles degrees of some agricultural biological fertilizers in the two research areas
- The most important obstacles in the diffusion of some agricultural bio-fertilizers in Kafrelsheikh governorate were: the extensional obstacles followed by cognitive constraints, while the most important obstacles in Elbeheira governorate were: the administrative obstacles followed by the cognitive constraints.
- The most suggestions mentioned from the point of view of the respondents to overcome the obstacles of the diffusion of some of agricultural biological fertilizers were: existence the bio-fertilizers in

agricultural associations and agricultural extension departments in the Agricultural Administrative, convincing the farmers with usefulness of these fertilizers through the extensional demonstration fields and existing it with an appropriate prices and competitive the others un biological fertilizers with percentages amounted to 93.97%, 81.5% and 69.15% respectively.