عنوان مقاله:

Evaluating Effective Factors on Water Use Efficiency Resources in Wheat

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خلاصه مقاله:

Considering water use efficiency resources and improving productivity level due to the contentious drought is very necessary. It is also notified that considering the effects of these factors and their relations to water inputs and reciprocal influences during consuming production inputs is very important. In this research water use efficiency is studied economically. Moreover, in the first step DEA (Data Envelopment Analysis) is applied to evaluate the technical efficient and use of water resources. In the second step, using Logit Model the led factors to efficient use of water will be recognized. To do so, the information of ۱۰۳ wheat cultivator is analysed in Shahindej, West-Azerbaijan in ۲۰۱۳-۲۰۱۴ during farming season. The results show that the average of water consuming in this region is low, about ۵۶/۳%. Variables like literacy level, the importance of water economizing, the soil and irrigation system types are positive. On the other hand, variables such as the age and area of field have negative effects on the efficient of irrigation water based on the consonant efficient to the scale. According to these findings, it seems that implementing classes in improving the functions of studied units and costing irrigation policy are very effective.

کلمات کلیدی:

Technical Efficient, DEA (Data Envelopment Analysis), Shahindej, Logit Model

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