

The Suggested Policies for Pricing Irrigation Water in Egypt and its Possible Effects

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Abstract

The Thesis is concerned with suggesting scenarios for irrigation water pricing in Egypt and studying its effects on the revenue of farmers and on the agricultural sector world competitiveness. Since the agricultural sector is the main consumer of water in Egypt and water is the main determinant of agricultural expansion needed to fill the Egyptian nutritional gap. It was important to think about irrigation water pricing in Egypt to enhance the best use of water in agriculture and to secure the fund needed to construct, operate and maintain new irrigation projects. The thesis used linear programming to determine the best cropping pattern for the suggested scenarios. Also the policy analysis matrix was used to determine the effects of irrigation water pricing on the agricultural sector world competitiveness. The Thesis was concluded by some suggestions and applicable recommendations in this field.

Keywords: Agricultural economics; Irrigation water; Policy analysis matrix; Water resources; Linear programming; Irrigation water pricing.