



AN ANALYTICAL STUDY OF THE RESPONSE OF SUPPLY FOR WINTER TOMATO CROP DISPLAY IN EGYPT

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ABSTRACT

Tomato crop is considered one of the most important strategic green crops at the national level. It is one of the food and manufacturing crops that some food industry uses it as pasle, it is also an important source in its contribution to the Egyptian national agricultural income.

The research aims at estimating the response supply for winter tomato crop in Egypt to determine the most important variables that can affect the response of the cultivated area of this crop. In addition to estimating the flexibility of the response to these variables, and the amount of the annual response to tomato farmers, and thus reach to the appropriate period necessary to achieve complete response. The response functions show has been estimated in accordance with the model of Marc Nerlov, and the model of Robert Solow.

The results of estimating the response supply of the winter tomato crop in Egypt using the model Marc Nerlov for partial adaptation during the period (1995-2013) have shown that the production of the

tomato crop per feddan is one of the most variables impact on the farmer's response to the expansion for the cultivation winter tomato., it has Also been clear that there is a response from winter tomato growers to the relative prices between the winter tomatoes and both of the sugar beet and beans. Besides that the results of estimating the response functions show for the winter tomato crop have shown according to the model of Robert Solow that the production of the winter tomato crop per feddan is considered one of the best variables impact on farmer's response to the expansion for the cultivation winter tomato. It has also, been clear that there is a response from the winter tomato growers to the relative prices between the winter tomatoes and both of the sugar beet and beans crops. The research recommends the need to activate the role of agricultural guidance and expansion of the establishment of the indicative fields in order to encourage farmers to use tomato varieties with high productivity. The research, also, recommends the expansion in tomato manufacturing so that it can make a kind of balance between the quantity demanded and the quantity supplied and thus the possibility of maintaining the price stability.

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