

P132. THE EFFECT OF VARIABLE QUANTITIES SEED POWDER OF AZADIRACHTA INDICA ON TRIBOLIUM CASTANEUM REPRODUCTION

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In order to agricultural health, many species of plants can be used on controlling insects and keeping of the stored foods safely. One of these plants is *Azadirachta indica*. It has an effect on nutrition, ovulation prevention and doing toxic effect for numerous pests. Therefore, it can be used for fighting agricultural pests. On the other hand, *Tribolium castaneum* is known to damage to the stored products and dry foods. Because of having short life cycle and ability of leaving a lot of eggs of a female, it is one of the important pest.

It was aimed to find the effect of variable seed powder of *A. indica* on *T. castaneum* reproduction in this study. Three different mediums were prepared for reproduction of *T. castaneum* insects in the study. None of the seed powder of *A. indica* plant was used in the first medium. However, in the other two mediums, the seed powder of *A. indica* was used for 10% and 40% ratios respectively. After three weeks the larvae which were in the mediums were counted. According to obtained results 211 larvae were in the medium where the seed powder of *A. indica* wasn't applied in, 127 larvae were in the medium where the seed powder of *A. indica* was 10% and 100 larvae were in the medium where the seed powder of *A. indica* was 40% respectively. These results showed the effect of variable quantities seed powder of *A. indica* on *T. castaneum* reproduction.

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