



Effects of Neemazal-T/S and Deltamethrin on the Rust-Red Flour Beetle *Tribolium castanum* (Herbst) Coleoptera: tenebrionidae

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ARTICLE INFORMATION

ABSTRACT

The purpose of this research was to assess the efficacy of dissimilar doses of NeemAzal-T/S, Deltamethrin and their combination against larvae and adult of the red flour beetle *Tribolium castaneum*. The recommended dose of NeemAzal-T/S didn't cause mortality to the adults until the 7th day up to 11th day (6.7%), (13.3%) respectively, where the larvae's mortality was reached (43.3%) on the 7th day and (83.3 %) on the 11th day .

The recommended dose of Deltamethrin caused mortality to all adults on the second day, where the treated larvae died completely on the 4th day. The combination of Deltamethrin and NeemAzal-T/S showed that 60% of the adults died on the first day where the larvae's mortality reached 57% on the same day, the mortality among the adults on the 2nd, 3rd and 4th day was 80,93,100 % respectively , compared to the larvae on the same days 70,77 and 97 % respectively.

It is clear for the results that Deltamethrin was more hasty mortality than NeemAzal-T/S which takes a long period of exposure.

Key Words:

Neemazal-T/S and Malation57,
Rust-Red Flour Beetle,
Tribolium castanum (Herbst)
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