

## Efficacy of two *Bacillus thuringiensis* subspecies *Kurstaki* formulations in the field against Sesame webworm, *Antigastracatalaunalis* (Dup.) (Lepidoptera: Pyraustidae) on sesame

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The experiments were conducted in Gedarif State, during 2009/2010 and 2010/2011 seasons. The variety A9 (local variety) was shown on 17, July in both seasons and arranged in randomized complete block design (RCBD) with four replications. Seven treatments were tested viz., Agreen at rate of 5, 10 and 15 g/lit, BTK at rate of 5, 10 and 15 g/lit and untreated control were tested against different instars larvae of sesame webworm, *Antigastracatalaunalis* (Dup.) on sesame.

The highest mortality rates were obtained with Agreen and BTK both compared to other treatment. All treatments were applied once during the rainy season when the crop attends the flowering stage. Significant differences were observed between treatments. However, Agreen and BTK on different dose rates were gave good flowers development during the season compared to untreated control. Poorest yield was obtained by untreated control and highest yield was obtained by Agreen and BTK treatments. The data was analyzed after transformations. Duncan's Multiple Range Test (DMRT), ANOVA were also used, means separations and significant differences. Metrological data records, viz., temperature, rainfall and %relative humidity R.H were obtained from Gedarif Metrological Station.

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