

عنوان مقاله:

Biology of the cotton bollworm, *Helicoverpa armigera* (Hübner) (Lepidoptera: Noctuidae) on different maize hybrids under laboratory conditions

محل انتشار:

دومین همایش ملی مدیریت کنترل آفات (سال: 1390)

تعداد صفحات اصل مقاله: 1

نویسندگان:

Akram Arghand - MSc student, Department of Plant Protection, Faculty of Agriculture, University of Mohaghegh Ardabili, Ardabil

Bahram Naseri - Assistant professor, Department of Plant Protection, Faculty of Agriculture University of Mohaghegh Ardabili, Ardabil

Jabraeil Razmjou - Assistant professor, Department of Plant Protection, Faculty of Agriculture University of Mohaghegh Ardabili, Ardabil

Mehdi Hassanpour - Assistant professor, Department of Plant Protection, Faculty of Agriculture University of Mohaghegh Ardabili, Ardabil

خلاصه مقاله:

The cotton bollworm, *Helicoverpa armigera* (Hübner) is a destructive polyphagous pest causing serious loss to many economically important crops in Iran. The effect of different maize hybrids (SC700, SC704, SC500, DC370 and SC260) incorporated into artificial diets on biology of *H. armigera* was studied at $25 \pm 1^\circ\text{C}$, $65 \pm 5\%$ RH and a photoperiod of 16:8 (L:D) hours. Incubation period of *H. armigera* was not significantly different on various maize hybrids. Longest larval period and development time were on SC700 (24.90 and 41.21 days, respectively) and shortest ones were on SC500 (19.43 and 37.62 days, respectively). The results showed that oviposition period was the longest on SC500 (7.11 days) and shortest on SC700 (3.10 days) compared with other hybrids. The highest daily fecundity of *H. armigera* was on SC500 (162.10 eggs) and lowest one was on SC704 (100.90 eggs). Larval growth index of *H. armigera* was the highest on SC500 (2.80) and lowest on DC370 (1.54). The highest fitness index was on SC704 and SC500 (0.80) and lowest was on SC700 (0.69). According to the results, it could be concluded that hybrid SC700 was unsuitable host for growth and development of *H. armigera*.

کلمات کلیدی:

Cotton bollworm, *Helicoverpa armigera*, biology, maize hybrid

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/172673>



