



**THE EFFICIENCY OF SOME PLANT EXTRACTS FOR CONTROLLING  
*MALACOSOMA neustria* (L). (LEPIDOPTERA : LASIOCAMPIDAE)**

**[25]**

**Aswad Al-Mhemid<sup>1</sup>**

**1- Plant Protection Department, Faculty of Agriculture, Alfurat University, Deir-Ezzor, Syria**

**Keywords:** Plant extracts, (Garlic Gard extract, Mixture of chili extract and oil of mustard), *Malacosoma neustria* (L.)

**ABSTRACT**

Laboratory experiments and field trials were carried out on the efficiency of selected three concentrations of each Garlic Gard extract and a mixture of chili oil of mustard extract (Valoram) based on fourth instar larvae of the insect. Garlic Gard extract was used in a concentrations of: 1 cm<sup>3</sup>/L, 0.5 cm<sup>3</sup>/L and 0.25 cm<sup>3</sup>/L. The mortality percentages were: 87.5 %, 83.3 % and 66.6 % respectively. The mixture of chili extract and oil of mustard extract was used in a concentrations of : 2 cm<sup>3</sup>/L, 1 cm<sup>3</sup>/L and 0.5 cm<sup>3</sup>/L. The mortality percentages were : 100%, 100% and 73% respectively.

Garlic Gard extract when used in a field with concentrations of : 8 cm<sup>3</sup>/L, 6 cm<sup>3</sup>/L and 4 cm<sup>3</sup>/L mortality percentages were: 23.3%, 3.3% and 3.3% respectively, and for pupation were : 83.3 %, 49.9% and 36.6% respectively, also the mixture of chili extract and oil of mustard was used in a concentrations of: 20 cm<sup>3</sup>/L, 10 cm<sup>3</sup>/L and 7 cm<sup>3</sup>/L the mortality percentage: 46.6%, 6.6% and 6.6% respectively. And for pupation: 89.9%, 83.3% and 66.6% respectively. Laboratory experiments showed that the mixture of chili extract and of mustard oil was highly effective against insect and more effective than Garlic Gard extract. Field trials showed that both Garlic Gard extract and the mixture of chili extract, and oil of mustard showed repellent effect and Killer materials to insects. The mortality percentage was high in using Valoram in comparison with Garlic Gard.

---

(Received January 13, 2007)

(Accepted April 10, 2007)

---

تحكيم : أ.د. جميل برهان الدين السعدني