

## RESEARCH REGARDING THE CHEMICAL FIGHTING OF *CAMERARIA OHRIDELLA* DESCHKA & DIMIČ SPECIE BY APPLYING AT GROUND THE SYSTEMATIC INSECTICIDES

**Pop Daniela, I. Oltean, Părau Teodora**

University of Agricultural Sciences and Veterinary Medicine, Faculty of Agriculture, 3-5 Mănăştur Street, 400372, Cluj-Napoca, Romania, email: popdaniela\_76@yahoo.com

**Key words:** *Cameraria ohridella*, chemical fighting, sistemic insecticide

For chemical fighting of *Cameraria ohridella* Deschka & Dimič specie were used more ways : foliar treatment , endotherapeutical methods , the applying of the solution on the trunk and low branches , as well as at the root of the tree. In year 2007 the efficiency of two systematic insecticides was tested : *Confidor 200 SL* and *Calypso 480 SC*. A quantity of 10 liters of solution was applied on ground , at the root of young chestnut trees. The treatments were made on every generation partly. The moment of the appliance of the treatment was established thru the monitorisation of the pest population using feromonal traps. The used dosage was 0,05 % and 0,08 % for every product. The establishment of the efficiacy was made by counting the mines from the treated leaves , in comparison with the blank sample. The presented data in tabel 1 are setting off the fact that the most efficient treatment proved to be the one with the *Confidor 200 SL*-0,08% insecticide. In this case the number of mines/leaf were with 78,84 % less than on the blank sample. Close results were canned also for the insecticides *Calypso 480 SC* 0,08% and *Confidor 200 SL* 0,05% , situation when the number of mines/leaf was decreased with 73,63 % , respective with 72,64 % , in comparing with the blank sample. The lowest efficiacy recorded in the case of *Calypso 480 SC* 0,05 % insecticide.

Table 1

The efficiacy of chemical treatment thru the appliance of the solution on ground (Cluj-Napoca, 2007)

Insecticide	Date/no. of mines /leaf			$\Sigma$	Media	Efficiacy %
	7.06	18.07	28.08			
Calypso 480 SC 0,05%	9,8	15,2	23,2	48,2	16,06	66,02
Calypso 480 SC 0,08%	8,4	12,4	16,6	37,4	12,46	73,64
Confidor 200 SL 0,05%	7,2	13,6	18	38,8	12,93	72,64
Confidor 200 SL 0,08%	6,4	10,4	13,2	30	10	78,84
Blank sample	24,2	45,4	72,2	141,8	47,26	

The insecticide *Confidor 200 SL* allows the reconstruction of the useful entomofauna, the vermines being observate dat the last generation grubs (Kuldová și colab., 2007). That's why i tis recommended the use of this insecticide for fighting the *Cameraria ohridella* Deschka & Dimič specie.

### BIBLIOGRAPHY

1. KULDOVÁ JELENA, I. HRDÝ, P. JANŠTA, 2007, The horse chestnut leafminer *Cameraria ohridella*: chemical control and notes on parasitisation, *Plant Protect. Sci.*, **43:2**, 47-56