



**XI INTERNATIONAL SYMPOSIUM OF
AGRICULTURAL SCIENCES**

BOOK OF ABSTRACTS

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Infestation rate of *Phyllocnistis vitegenella* Clemens in commercial vineyard in Neštin

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Abstract

Phyllocnistis vitegenella Clemens (Lepidoptera: Gracillariidae) is a leafminer of grapevine which was recorded during 2019 in Serbia for the first time. While feeding, larvae form serpentine-like mines on leaves. This leads to the reduction of assimilation surface, especially when the infestation level is high. Since this is a newly introduced pest, the aim of this study was to determine its infestation rate in a commercial vineyard throughout the vegetation season. The research was conducted during 2020 in a commercial vineyard, Italian Riesling variety, in Neštin area (northwest Serbia). Sampling was done once a month starting from May to October (16.05., 14.06., 11.07., 13.08., 14.09., 02.10.) by collecting 5 leaves from 20 randomly chosen vines (100 leaves per sample) from a 1 ha area. Collected leaves were transported to the laboratory for examination and rearing of larvae for the determination of species. The infestation rate was calculated according to Shareef et al. (2016). In this vineyard, as regular measure for the control of other grapevine pests, a total of seven insecticide applications were performed with 14 days interval, starting from the second decade of May to the second decade of July. Four applications were carried out with a product based on deltamethrin (10g a.i. ha⁻¹) and three with chlorantraniliprole (36g a.i. ha⁻¹). During this research, there were no mines detected in May, June, and July. First mines were recorded in August and infestation rate was 47%. Similar infestation rate (45%) was registered during September. The highest infestation rate (87%) was registered in October. The occurrence of mines on the leaves only after cessation of the application of insecticides in the vineyard as well as the increase of infestation rate towards the end of vegetation indicates that the applied insecticides have a negative impact on the population of *P. vitegenella*.

Key words: leafminer, infestation rate, grapevine