

# BOOK OF ABSTRACTS



*XIV International Scientific Agriculture Symposium  
"Agrosym 2023"  
Jahorina, October 05-08, 2023*



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## INFLUENCE OF INSECTICIDES ON TOTAL CANAL LENGTH IN THE CORN STEM FORMED BY FEEDING *O. NUBILALIS* LARVAE

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### Abstract

The aim of this study was to determine the effect of insecticides on the total length of canals in corn stems formed by the feeding of larvae of *Ostrinia nubilalis*. The research was carried out in the experimental field of the Zemun Polje Maize Institute in 2018. Two maize hybrids of different FAO ripening groups (ZP 427 and ZP 666) were tested. Two insecticides were compared on the total canal length in corn stalks in order to determine if there is a statistically significant difference in the effect of the applied insecticides. The preparations Coragen SC with the active substance chlorantraniliprole and Phobos EC with the active substance bifenthrin were used. At the end of the corn harvest, the plants were dissected, where, in addition to other measurements, the length of the canals formed by the feeding of the larvae of the corn borer was measured. The results showed that there is a significant difference between treated and untreated plants. The best results were achieved with the insecticide with the active substance chlorantraniliprole in hybrid ZP 427, where the total length of all channels formed by feeding *O. nubilalis* larvae was 166.67 cm, while the worst results were found in the control variant of hybrid ZP 666 with 278.33 cm.

**Key words:** *Ostrinia nubilalis*, maize, insecticide.