Carpocapsa pomonella - OCCURRENCE IN APPLE ORCHARDS DURING 2022-2023 IN MACHVA

Stošić Nemanja[1], Blagojević Milan[1], Rašković Vera[1], Bajagić Marija[2], Ljiljana Tanasić[1], Marković Stefan,[1] Nenad Pavlović[1]

[1]Academy of Applied Studies Šabac. Unite for Agricultural Business Studies and Tourism, Republic of Serbia
[2]University of Bijeljina, Faculty of Agriculture, Bijeljina, Republika Srpska
email: nemanjastosic.vpssa@gmail.com

Abstract

In the location of Mrđenovac (Repubilka Srbija, Mačva), during 2021-2023, the presence and representation of Carpocapsa pomonella in apple orchards was monitored. It is specific that the apple orchard is surrounded on two sides by large forests, which would favor the development of all insects. Apple planting with the varieties Granny Smith, Red-Cif, Pink lady was planted on M-9 rootstocks during the fall of 2015. On pheromone traps in 2021, the first appearance of imago was recorded on April 16, while the largest number was determined on May 12. presence was also recorded until the last decade of September. In 2021, the first appearance of imago was recorded a little later on April 29, while the largest number was recorded on June 11. During 2022, the presence of the first imagos was recorded on April 26, and the largest number on August 30. During 2023, the presence of the first imagos was recorded on 07.05., and the largest number on 03.09. The number of imagos on traps varies at peaks of occurrence from 6 to 12 imagos on a pheromone trap. The intensity of development and the number depended from the very beginning where we had a higher number than the appearance itself, as in 2021, the intensity of the attack and the number was as high as the late peak of 11.6. in number it is the result of a strong and long attack of insects for that year. Percentage-wise, due to the level of Carpocapsa pomonella attacks, the greatest damage was recorded in 2021. According to the percentage representation, depending on the variety, the yield was reduced in 2021 by between 1 and 6.5 percent. The greatest damage was done by the Granny Smith variety in 2021 with 6.5 percent, and the least Pink Lady with a 1 percent reduced yield.