

LITHOCOLLETIS CORYLIFOLIELLA - REPRESENTATION IN THE APPLE ORCHARD DURING 2020-2022 IN MAČVA

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Abstract

Lithocolletis corylifoliella is a miner of "white mines" and is known as a minor apple pest in the territory of Mačva. However, in the event of suitable weather conditions for wintering and development of this insect, and less intensive control with chemical measures, this insect can become a significant pest. The research was conducted in the locality of Mrđenovac (Repubilka Srbija, Mačva). During the growing seasons 2020-2022. the appearance and presence of the white miner *Lithocolletis corylifoliella* in the apple orchard was monitored. The appearance and abundance was monitored using adequate pheromone traps. On the pheromone trap in 2020, the first appearance of imago was recorded on 11.04., while the largest number of imago was determined in 12.08. (5 adults). Also, the appearance and presence were recorded until the imago stopped appearing (23.09.). In 2021, the first appearance of imago was recorded 10 days earlier (01.04.), while the largest number of imago was determined on 15.04. (19 adults). Reporting of imago lasted until 21.09. During 2022, the presence of the first images was recorded 5 days earlier than in 2021 and even 15 days earlier than in 2020 (26.03.). The highest number was recorded on 16.08. (45 adults). The appearance of the image lasted until 09.09. The abilities of an adult caterpillar to easily overwinter in a fallen leaf and the development of a larger number of generations (3-4) are favored by relatively high temperatures during the winter period and throughout the year. This phenomenon is reflected in the earlier appearance of imagos from year to year, but also the sharp jump in the peak number of miner imagos, from 5 to as many as 45 individuals per day in the peak of summer, in a period of only 2 years.