ŠTUĐIJA PREFERENCE HRANJENJA LISTNEGA ZAVRTAČA (*Leucoptera sinuella* Rtti., Lepidoptera, Leucopteraeidae) Z LISTJEM RAZLIČNIH KLONOV ČRNEGA TOPOLA

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Ključne besede: črni topol, *Leucoptera sinuella*, preferenca hranjenja, klonoska selekcija

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ABSTRACT

STUDY OF Leucoptera sinuella Rtti. (Lepidoptera, Leucopterae) PREDILECTION FOR FEEDING ON THE LEAVES OF DIFFERENT BLACK POPLAR CLONES

During their multiannual work on selection, the researchers of the Poplar Research Institute in Novi Sad developed a great number of black poplar clones characterised by growth vigour, which is evaluated as a very favourable property. However, it was shown that a number of harmful organisms obstruct their vigorous growth and the maximal volume. Among them, in the last years, leaf miner Leucoptera sinuella Rtti. has a significant position. By its feeding on leaf tissue, i.e. by creating the "mines" in the poplar leaves in general, it reduces their assimilation area with all the known consequences. The reduction of the assimilation area in some clones amounted up to 60% of the crowns. It was observed that the degree of attack by this miner differed depending on the clone. Therefore it was inferred that there was predilection (preference) of this miner for some clones which are included in the selection procedure. By detecting the predilection for some clones, we can get a clear idea of the individual hazard by this insect pest, and thus the clone potential of wider use in afforestation. On the other hand, they can be used as "bait" plants in plantations and nurseries in carrying out the integral protection. Predilection was researched on five clones in the narrow selection list for starting the procedure for cultivar registration, i.e. the clones B-227, S6-7, 665, 187/81 and 129/81, and the test clones were "Robusta" and "Pannonia", which are widely used in afforestation practice. Based on the number of mines and cocoons eaves of the above clones in the stool bed of the gene pool of the Institute's Experimental Field, we determined the degree of predilection. The highest number of cocoons and "mines", i.e. the greatest degree of predilection in this study was shown by L. sinuella for the clones 129/81 and B-229, and the lowest degree of predilection occurred for the clones "Robusta" and 182/81.

Key words: Leucoptera sinuella, predilection, black poplars, clon