RESEARCHES REGARDING SEXUAL DIMORPHISM OF
Cameraria ohridella Deschka & Dimič ADULTS

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SUMMARY

It is known the fact that Cameraria ohridella Deschka & Dimič, is a new pest in Europe, being detected for the first time around Ohrid lake in Macedonia, in 1984. From here it spread quickly, in present it’s found all over the Europe (Augustin, 2005). Studies regarding the morphology of this species we were undertaken by Freise and Heitland (1999), Şandru and Petrache (2002), Pschorn-Walcher (2002), Augustin (2005), those were making references about the characteristics of the adult, egg, larva and pupa.

Freise (2004) shown the fact that in pupa stage, there are differences between those two sexes, the structure of 6 and 7 abdominal tergites being different.

Sexual dimorphism is obvious in adult degree. For studying sexual dimorphism elements in adult stage, there were taken pupa from inside the leafmine, kept in recipients until the metamorphosis is complete and the studied with the help of binocular to determinate females and males using lenght of antennas. They were expose in metallizator where, in vid, they were covered with silver atoms. After metallization were undertaken structural and morphostructural studies using electron microscope with baleaj „SEM˝ Jeol-JSM 5510 LV.

The female body is sleisly bigger than male’s body, measuring 2,4 mm, but the male’s wings lenght in spell is with 0,4 mm bigger than the female’s. The last abdominal segment of the female’s body is uncovered, unlike the male’s segment which is covered with scales. The male’s antenna is longer than the female’s antenna, it presents 42 antennomeres, unlike the female’s antenna which is shorter, being composed by 32 antennomeres.

Analysing the ommathidia characters, we can notice easily that the female’s ommathidia is roud off, measuring 0,12 µm and presenting delicate ornaments, and the male’s ommathidia is hexagonal, measuring 0,14 µm, and it is much striated.

The observation made lead us to the conclusion that even if sexual dimorphism starts to be obvious since pupa degree, in adult stage are present more characteristics for differentiation.

AUGUSTIN, S., 2005, La mineuse du marronier, Cameraria ohridella, un lépidoptère invasif en ville, Insectes, 137, 25-28