

# The Effects of Cypermethrin, $\alpha$ -cypermethrin and Buprofezin on *Phytodecta fornicata* BRUG. (Coleoptera, Chrysomelidae)

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**Abstract:** The influence of buprofezin and cypermethrin on *Phytodecta fornicata* BRUG. (Coleoptera, Chrysomelidae) independently and in combinations was studied under laboratory conditions. The pyrethroids Fendona and Bandit have a high toxic activity against the adults of *P. fornicata*. The effect of Fendona is significantly stronger than that of Bandit. The chitin synthesis inhibitor buprofezin shows a high biological activity against the larvae of *P. fornicata* and it is suitable for use, when the larvae prevail in the populations. In the spring, when the adults of *P. fornicata* prevail, the combined use of 20-ppm Bandit and 1000 ppm buprofezin (ratio 2:1) is recommended. This will decrease the use of high concentrations of pyrethroids and will prevent the disturbance of populations of beneficial insects.

**Key words:** insect control, pyrethroids, chitin synthesis inhibitors