THE CONTROL OF PESTS FROM GRASSLAND ECOSYSTEMS BY NON-CHEMICAL METHODS

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SUMMARY

The grassland ecosystems are very complex concerning the biodiversity and the interrelations between the individuals of same species, the populations of different species (plants, animals, microorganisms), between the whole biocenosis and ecological factors. The vegetal species from grassland ecosystems are the food source for a large number of animals. In artificial pastures (cultures of leguminous fodder plants and grasses) and natural pastures (hayfields), the damages of pest fauna are notable, reducing the green mass and hay production. Our researches aimed the study and control of pest fauna, which affected much or less these ecosystems, using non-chemical methods. The researches carried out between 2006-2007 in Sinaia (District of Prahova - Romania), in the montane grassland ecosystems, with Lolium spp. and Trifolium spp. The methods are based on using visual traps with water, which attracts the pests. There has been used ceramic coloured plates with water: 6 variants (white, silver, orange, green, blue, red) + the witness (yellow). Two experiences has been organized every year in July and August. After one week, we noted the results. At the coloured plates with water as traps, the best results recorded the variant 7 - control (yellow) with 800 captured insects (Ord. Diptera, Homoptera, Heteroptera, Hymenoptera, Lepidoptera, Coleoptera, Orthoptera), followed by the variant 1 (white) with 750 captured insects (Ord. Hymenoptera, Diptera, Homoptera, Coleoptera, Thysanoptera, Orthoptera), variant 2 (silver) with 700 captured insects (Ord. Hymenoptera, Diptera, Homoptera, Coleoptera, Heteroptera), variant 3 (orange) with 600 captured insects (Ord. Diptera, Hymenoptera, Homoptera, Lepidoptera, Coleoptera), variant 4 (green) with 550 captured insects (Ord. Diptera, Hymenoptera, Homoptera, Coleoptera, Lepidoptera, Orthoptera), variant 5 (blue) with 450 captured insects (Ord. Diptera, Hymenoptera, Homoptera, Lepidoptera, Coleoptera) and variant 6 (red) with 200 captured insects (Ord. Diptera, Hymenoptera, Homoptera). After one week of capturing the pests from studied grassland ecosystems, all the variants recorded a very good efficacy, excepting variant 6 (red).

BIBLIOGRAPHY