

COMPARATIVE RESEARCH ON THE STRUCTURE AND ABUNDANCE OF BIODIVERSITY ENTOMOFAUNA IN SOME RAPE CULTURES

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Abstract

The rape seed culture, occupy the first place among plants of the family *Cruciferae* protein meal, both by the production and by its high oil content. In European community countries, rape is cultivated on significant areas through the use of rapeseed oil in industry and agriculture. Research on entomofauna were made in rapeseed farm S.C. AGRO IND COM S.R.L. Botoșani from 2011. The material was collected using soil traps Barber type. In totally, in the ecosystem of the year 2011 were collected 1184 samples. The species collected belonging to 7 orders: *Diptera*, *Arachnidae*, *Hymenoptera*, *Coleoptera*, *Orthoptera*, *Homoptera* and *Heteroptera*. The damaging fauna from the rape cultures belongs to the *Coleoptera* orders with the species *Meligethes aeneus* F., *Phyllotreta atra* L. and *Phyllotreta nemorum* F.; *Diptera* order, *Anthomyidae* families. The useful fauna belongs to *Hymenoptera* and *Diptera* orders and *Ichneumonidae*, *Braconidae* families.

Key words : rape seed culture, damaging fauna, useful fauna