

## RESEARCHES REGARDING THE ENTOMOFAUNA OF COLEOPTERAS WITHIN SOME AGRICULTURAL CROPS FROM THE NORTH PART OF PORTUGAL

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### Abstract

The purpose of this research was that to identify the useful entomofauna of Coleopteras from the agricultural crops which have been taken into the study: olive trees and orange trees. The researches were carried out within the Quinta da Pinhao station, which belongs to the University of "Tras os Montes e Alto Douro". The biological material was sampled by the mean of D-Vacuum at 20<sup>th</sup> of June of 2017, from each 6 trees belonging to each crop, which have been aimlessly chosen. The D-Vacuum has worked one minute for each tree taken into the study. After carrying out the experiments, all the sampled insects were bringing into the Laboratory of Entomology in order to be counted and determined.

From the *Coleoptera* order, species with the biggest number of samples were:

-within the olive trees: *Chrysomelidae* family-91 samples, *Coccinellidae*- 56 samples, *Aderidae*-42 samples and *Scarabaeidae*-38 samples. From the *Coccinellidae* family, species with the biggest number of samples were: *Coccinella septempunctata* (31) and *Hippodamia variegata* (16).

-within the orange trees: *Chrysomelidae* family-142 samples and *Coccinellidae* family- 54 samples.. From the *Coccinellidae* family, species with the biggest number of samples was: *Coccinella septempunctata* (33) .

**Key words:** D-Vacuum, *Chrysomelidae*, *Scarabaeidae*, *Coccinellidae*.