

OBSERVATIONS REGARDING THE ENTOMOFAUNA OF COLEOPTERAS WITHIN SOME AGRICULTURAL CROPS FROM THE NORTH-EAST PART OF PORTUGAL

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Abstract

The aim of this research was that to identify the entomofauna of *Carabidae* existing within the agricultural crop taken into the study: vineyard grove by the mean of soil traps. Each 5 traps were mounted inside 3 subplots, namely: leguminosae+graminias, leguminosae and natural. The area of work was about 1.30 ha, each subplot having a surface of 4.000 m². The researches were carried out within Quinta da Granja farm which is located very close to Alijo city, at two dates: May 18th and May 22nd of 2017. To prevent the maceration of insects, a solution consisting of water and formalin was added inside each trap. After carrying out the experiments within the field, the insects were brought in the Laboratory of Entomology in order to be counted and identified. From the *Coleoptera* order, species with the biggest number of samples were: -within the leguminosae+graminias subplot: *Carabidae* family (92), *Scarabaeidae* (45), *Staphylinidae* (25) and *Dermestidae* (12). From the *Carabidae* family, species with the biggest number of samples were: *Harpalus tardus*-33 and *Carabus violaceus*-12 (for the date of May 18th); *Carabus violaceus*-24 (for May 22nd); - within the leguminosae subplot: *Carabidae* (154), *Staphylinidae* (101) and *Scarabaeidae* (71) and *Cerambycidae* (32) and *Chrysomelidae* (27) and *Dermestidae* (19). From the *Carabidae* family, species with the biggest number of samples were: *Pterostichus vernalis*-63 and *Poecilus versicolor*-32 (for May 18th); *Pterostichus cupreus*-26 (for May 22nd); - within the natural subplot: *Carabidae* (128), *Chrysomelidae* (72) and *Scarabaeidae* (54) and *Dermestidae* (22). From the *Carabidae* family, species with the biggest number of samples were: *Brachimus crepitans*-24 (for May 18th); *Anisodactylus binotatus*- 48 (for May 22nd).

Key words: soil traps, *Carabidae*, *Scarabaeidae*, *Dermestidae*