

Entomofauna Biodiversity of a Citrus Orchard in Baraki, Algeria

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Abstract : Orchards and minimally processed with surrounding hedges form a significant source of biodiversity. These orchards are an entire ecosystem, home to a rich insect fauna associated with the presence of a large diversity of plant species. The values of the richness and diversity rise when the intensity of the chemical protection is reduced emphasizing the importance of such orchard in the conservation of biodiversity. To show the interest hedges fauna perspective, we conducted a study in an orange grove located Baraki surrounded by hedges and windbreaks consist of several plant species. With the sweep net there were the invertebrate fauna of the herbaceous and after a year of inventory was collected consists of a 2177 individuals distributed among 156 species grouped into five classes and 15 orders fauna. Hymenoptera and Diptera are in first place with 34 species (AR% = 19.3%), followed by Coleoptera with 27 species (AR% = 15.3%), Homoptera dominate in the workforce with 735 individuals (AR% = 34.1%). The Shannon-Weaver index calculated reflects a great diversity of population sampled equal to 5.2 bits. The equitability is 0.7, showing a strong trend of balance between the numbers of species present.

Keywords : biodiversity, citrus orchard, reaps net, hedges, Baraki

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