

Distribution and Comparative Diversity of Nematocera within Four Livestock Types in the Plain of Mitidja Algeria

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Abstract : During six months, from November 2013 to May 2014, census of Nematocera insects was conducted on four livestock: cattle, sheep, equine and cameline. The census, that took place in a station located in Mitidja plain, Algeria, revealed thirteen Nematocera species that had been observed and identified: *Scatopse notata*, *Chironomus* Sp., *Sciara bicolor*, *Psychoda phalaenoïdes*, *Culex pipiens*, *Orthocladius* Sp., *Psycoda alternata*, *Trichocera regelationis*, *Culicoïdes* Sp., *Contarinia* Sp., *Ectaetia* Sp., *Tipula* Sp., and *Culicoïdes coprosus*. A factorial correspondence analysis has been performed to study the distribution of the different species captured in colored traps that were placed in the four farms. The results showed the presence of three collections of Nematocera relating to the breeding type where the highest availability is in favor of the equine and the cattle. The analysis of the comparative diversity of Nematocera specimens revealed an indifferent taxonomic structure compared with the hosts. However, in terms of individuals, the supremacy is to the equine's advantage. On the ecological arrival scale, *Psycoda alternata*, is undeniably the most predominant on the equines as well as on the cattle.

Keywords : Algeria, availability, biodiversity, census, livestock, nematocera

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