

MITES SPECIES OF THE PHYTOSEIIDAE FAMILY PRESENT IN MUSCAT HAMBURG GRAPE CULTIVAR IN TWO VINEYARDS

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ABSTRACT

The study was carried out in two vineyards in Muscat Hamburg grape cultivar during 2016-2017. The main objectives of the study were: to identify species that are present in Muscat Hamburg grape cultivar in both vineyards during 2016-2017; to see if we have any difference between phytoseiid mites that are found in both vineyards and to see the difference between the years; to find the dominant species and the most populated period. During this study we have identified four species of Phytoseiidae family *Amblyseius andersoni*; *Amblyseius(Euseius) stipulatus*; *Phytoseius finitimus*; *Typhlodromus pyri*. We have also recorded tydeid mites and tetranychid mites that are found in low populations compared with phytoseiid mites. In the vineyard I, were present four species of Phytoseiidae family: *A. andersoni*; *A. stipulatus*; *Ph. finitimus* and *T. pyri*. *Ph. finitimus* was the dominant species and was present in both years of the study, in 9 from 10 sampling periods. In September 2016 we found the highest number of phytoseiid mites and *Ph. finitimus* per leaf (8.87 ± 1.64). *A. andersoni* was present in both years of the study only in September. *A. stipulatus* was present in September 2016 whereas *T. pyri* was present in July 2017. In vineyard II were present two species, *Ph. finitimus* and *T. pyri*. *Ph. finitimus* was the dominant species and was present in both years of the study, in 9 from 10 sampling periods. In September 2016 we found the highest number of phytoseiid mites and *Ph. finitimus* per leaf (5.13 ± 0.85). *T. pyri* was present only in September 2017. We don't have a significant difference between phytoseiid populations found in 2016 -2017 and phytoseiid mites found in vineyard I - vineyard II.

Keywords: *Phytoseiidae*, Muscat Hamburg, vineyard, *Ph. finitimus*, *A. andersoni*.