



HYTOSEIID MITES (ACARI: MESOSTIGMATA: PHYTOSEIIDAE) OF POBEDA DENDROLOGICAL PARK (ODESSA CITY)

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Predatory mites of the family Phytoseiidae (Acari: Mesostigmata) are known as natural enemies of small arthropods (spider mites and others small mites, nemathoda, some small insects). They live in the foliage or on bark of trees and shrubs, on other vegetation, additionally some species are common litter and soil inhabitants. About 18 genera and more than one hundred species of the family were recorded in Ukraine (Kolodochka, 2006). In Odessa and Odessa province phytoseiid mites almost have not been studied.

In 2010 research of the species diversity of phytoseiid mites and their association to different plant species in artificial green plantings of Odessa Pobeda dendrological park started. 66 samples from 31 species of angiosperms trees and shrubs plants were collected during spring-autumn 2010. Plant samples were taken by standard techniques: leaves were collected randomly from various parts of the trees to the laboratory and examined under stereomicroscope (Kolodochka, 1978). Collected mites were mounted on slides in Hoyer's medium. In 39 samples mites were found. More than 150 phytoseiid specimens were studied.

Collected mites from family Phytoseiidae were identified as 5 species from 5 genera (*Euseius*, *Kampimodromus*, *Bawus*, *Seiulus*, *Typhlodromus*). The most widespread species is *Euseius finlandicus* (Oudemans, 1915) occurred on over 20 plant species (*Acer monspesulanum*, *A. platanoides*, *A. tataricum*, *Catalpa bignonioides*, *Celtis australis*, *C. occidentalis*, *Fraxinus americana*, *F. excelsior*, *F. viridis*, *Juglans regia*, *Koelreuteria paniculata*, *K. spicata*, *Laburnum anagyroides*, *Morus alba*, *Philadelphus coronarius*, *Sambucus nigra*, *Spiraea vanhouttei*, *Syringa vulgaris*, *Tilia americana*, *T. platyphyllos*, *Ulmus carpinifolia*), belonging to 14 genera and 12 families. *Euseius finlandicus* not found on 4 plant species (*Acer negundo*, *A. pseudoplatanus*, *Cotinus coggygria*, *Morus nigra*). *Kampimodromus aberrans* (Oudemans, 1930) occurred distributed on 7 plant species (*Acer negundo*, *A. pseudoplatanus*, *Celtis occidentalis*, *C. australis*, *Fraxinus americana*, *Philadelphus coronaries*, *Sambucus nigra*). We often found *Kampimodromus aberrans* with *Euseius finlandicus* on one plant sample. Other phytoseiid mites were found on at one to four plant species. On one plant species we was found no more than two phytoseiid mite species.