PP-341

Population Change and Density of *Notonecta viridis* (Hemiptera: Notonectidae) and Chironomidae Along Lake Van Coastline

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Aim of the study: This study was out on the coastal band of Van Lake between May-October, 2011 in order to determine the changes in population the due to environmental effects and different human activities.

Material and Methods: In this study the population densities of *Notonecta viridis* and species that belonging to Chironomidae family were determined in 22 different sampling point where located at the coastal band of Van Lake which has 430 km distance between may-october 2011. The sampling points were consist of settlement, river entries and natural places and samplins were made of by sweepnet which has 35 cm diameters and plankton dipper whose net openning was 153 mesh. In the monthly samples numbers of every species were recorded and additionally, pH, temperature, salinity, nitrogen, ammonium, iron, copper, manganase, potassium values of water were measured.

Results:At the end of the study, *Microchironomusderibae*, *Halocladiusfucicola*, *Cricotopus* spp. ve *Chironomid* sp species belonging to Chironomidae family were found and among those, *Microchironomus deribae* and Halacladius *fucicola* species are new records for Lake Van. In the study, the population change according to species months was similar to a large extent in the different sampling methods. All populations, while very low density at the beginning of June reached the highest level in August. Changes in the population of the species the water temperature was found to be significantly effective.

Key words: Van Lake, Notonecta viridis, Chironomidae, Population change