

**Seasonal Population Dynamics and Breeding Habitat Diversity of
Culex pipiens Linnaeus, 1758 (Diptera: Culicidae) in Gölbaşı
District, Ankara, Turkey.¹**

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ABSTRACT

It was determined that *Culex pipiens* used 12 different breeding habitats and coexisted with 9 other mosquito species in these habitats in the study area covering Gölbaşı District, Mogan and Eymir lakes, and Yınrahor Valley in Ankara, Turkey. It was also found that *Culex pipiens* did not have a specific habitat preference, and could breed in all of the aquatic habitats level. Seasonal changes in larval and adult population densities were conducted using 17 larval sampling quadrats reflecting the general features of the study area, 6 New Jersey light traps and 8 barn quadrats. The overwintering of *Culex pipiens* winter population was also studied.

Key words: *Culex pipiens*, breeding habitats, population dynamics, overwintering

INTRODUCTION

Mosquitoes are the vectors of some of the most important viral and other diseases such as malaria, filariasis and dengue (Belding, 1942). Recently, there have been climatic changes, ecosystem corruption and migration, which have lead to changes in the distribution of mosquitoes and pathogen organisms. Related to this, mosquito-born diseases have increased (Patz *et al.*, 1996; Jetten *et al.*, 1997).

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