

Turkish Journal of Zoology

Turkish Journal

of

Zoology

Seasonal Frequency and Relative Density of Larval Populations of Mosquito Species (Diptera: Culicidae) in Şanlıurfa Province, Turkey

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Abstract: This research was conducted between June 2000 and August 2002 in 2 regions of Şanlıurfa: one (IR) where there was substantial irrigated agriculture due to the Southeastern Anatolia Project and another (MR) where a high number of malaria cases were determined every year. Ten species, namely Anopheles (Anopheles) claviger Meigen, 1804, An. (Anopheles) sacharovi Favre, 1903, An. (Cellia) superpictus Grassi, 1899, Culex (Neoculex) martinii Medschid, 1930, Cx. (Culex) pipiens Linnaeus, 1758, Cx. (Neoculex) territans Walker, 1856, Cx. (Culex) theileri Theobald, 1903, Culiseta (Allotheobaldia) longiareolata Macquart, 1938, Ochlerotatus (Ochlerotatus) caspius Pallas, 1771 and Uranotaenia (Pseudoficalbia) unguiculata Edwards, 1903, were recorded in this study, and seasonal frequencies and relative densities of larval populations were determined separately for each region. Based on the frequencies, relative densities and vectorial significance of species found in this study, Culex pipiens, Cx. theileri and Ochlerotatus caspius in IR and Anopheles claviger, An. sacharovi, and An. superpictus in MR were of higher significance.

Key Words: Mosquitoes, larval population, frequency, relative density, malaria, Şanlıurfa

Turk. J. Zool., **30**, (2006), 383-392.

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