

Oligochaeta (Annelida) Fauna of Akgöl and Gebekirse Lakes (Selçuk-İzmir)

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ABSTRACT

1. In order to determine the Oligochaeta fauna of Akgöl and Lake Gebekirse by meaning of qualitative and quantitative aspects, the benthic materials, collected from three stations from each of the lakes between October 1984 to September 1985, were studied. The specimens obtained by collection of mud samples with an Ekman-Birge grab and elimination with a fine 0.5 mm sieve were stored in 4% formaldehyde solution.
2. As a consequence of qualitative determinations, a total of 8 taxa comprising 6 species from the Lake Akgöl [*Limnodrilus hoffmeisteri*, Claparede, 1862, *Tubifex tubifex*, (Müller, 1774), *Potamothrix hammoniensis*, (Michaelson, 1901) *Potamothrix heuscheri*, (Bretschner, 1900) *Aulodrilus pigueti*, Kowalewski, 1914, *Dero digitata*, (Müller, 1773)], and 4 taxa from the Lake Gebekirse [(*T. tubifex*, *P. hammoniensis*, *T. tubifex f. bergi*, (Müller, 1774), *P. bavaricus*, (Öschman, 1913)]. *T. tubifex* and *P. hammoniensis* were found in each lakes.
3. The average density of oligochaeta specimens in the benthic composition of Akgöl and Gebekirse lakes were 332 ind. m⁻² and 462 ind. m⁻² respectively. The dominant species *P. hammoniensis* accounted for 171 ind. m⁻² and 302 ind. m⁻² respectively. The other species were poorly represented in the studied lakes. According to the Shannon-Wiener index, the average diversity of the oligochaeta species in the Lake Akgöl was found 2,32 and in the Lake Gebekirse was 1,56. There are no data on the Oligochaeta fauna of these lakes so far. Hence, all the determined taxa were recorded for the first time from the mentioned lakes.

KEY WORDS: Akgöl, benthic fauna, Lake Gebekirse, Oligochaeta, Shannon Wiener index.