

DISTRIBUTION AND ABUNDANCE OF ODONATES, IN PALAKMATI STREAM OF NARMADA RIVER BASIN

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ABSTRACT

During the present study, odonatan diversity of Palakmati stream was evaluated, using Shannon-Weiner diversity index and Margalef's richness index. Within a 100 m transect, encircling the variety of habitats, odonates were sampled from all the major habitats. A total of 11 species, belonging to 6 families of odonates were recorded, during the study. It was observed during the investigation that, aquatic vegetation forms the favorable habitat for odonates, while it gets negatively affected by the limited shade cover and less riparian vegetation, along the stream banks. During the present survey, low species diversity and richness of odonates were observed in Palakmati stream, possibly due to limited shade cover.

KEYWORDS: Odonates, Stream, Narmada River, Riparian Zone