

Life sciences

BUTTERFLY SPECIES DIVERSITY IN HYDERABAD TELANGANA STATE.

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ABSTRACT:-

Butterflies are technically well studied group, which have received a reasonable amount of attention throughout world ,Yet even within genera containing very common and wide spread species, our understanding of true species diversity may prove to be startling below common expectation have worldwide by 1998. The figure is not constant because of continuous addition of new butterflies species. Many butterflies species are strictly seasonal indicators in term of anthropogenic disturbance and habitat quality. Lepidoptera community assembly and the factors which influence it have long been a topic of interest to ecologist and conservationists. Human dominated landscape form a substantial and ever increasing amount of the earth surface. These modified habitats often influence butterfly species and their dynamics. Arthropods are good indicators of habitats biodiversity because they respond quickly to environmental changes and are highly diverse taxon. Lepidoptera (butterflies and moths) and second largest order of arthropods and are most easily identified, making them particularly for biodiversity survey. Butterflies occur in a wide range of situations but are particularly characteristics of humid tropical forests, in which the known species occur. Two important aspects of diversity are species richness and relative abundance of individuals. Species richness is the most considerable conservation planning and natural resource management.

Butterflies are one of the most important assemblages of insects that act as biodiversity indicators. They monitor and manage the environment. As these are very sensitive insects, they cannot survive in polluted areas. And thus these are called as bio-indicators and pollution indicators. The objective of the present survey is focused on the assessment of the diversity and seasonal abundance of butterfly with vegetation composition of habitat and conservation priorities in the study area. Some investigations have been done to record diversity of butterflies in few preferable sites in Hyderabad during March 2017 to March 2018. We have focused on butterfly diversity in Hyderabad, as it is a greater developing city to which lots of people come on work, Education, Tourism.... and roam on vehicles which are causing pollution. They even live in these conditions and make environment pollute. So, are these conditions favorable to butterflies for their surveillance. In this survey a total of 28 species belonging to five families were recorded. Maximum number of species are found from the family Nymphalidae.

Key words: *Butterflies, Hyderabad, Nymphalidae, Bio-indicators, Pollution, species*

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