

ABSTRACT

Ihsana Pebriyansyah, 2021. Species Abundance of the Order Lepidoptera in Nyawang Bandung Forest West Bandung Regency. Supervised by Prof. Dr. H. Toto Sutarto Gani Utari, M. Pd. and Drs. Suhara, M.Pd.

*The study on "Species Abundance of the Order Lepidoptera in Nyawang Bandung Forest, West Bandung Regency" was conducted on 21-23 May 2021. This study aims to obtain quantitative information about the abundance of Lepidoptera in Nyawang Bandung Forest. The research method used is a descriptive method with a belt transect research design and sampling techniques are hand sorting, pit fall trap, insect net and beating tray. The research station consisted of 5 stations with 6 squares, with 6 times sampling for each research station. The area of the square plot used is 2 x 10 m². The data taken are data on the number of Lepidoptera species and supporting data on environmental factors (air temperature, humidity and light intensity). Sample identification was carried out at the Biology Laboratory, FKIP, Pasundan University, Bandung. Data analysis includes the abundance of Lepidoptera in the Nyawang Bandung Forest. The results of research in the Nyawang Bandung Forest showed the number of Lepidoptera species found in the Nyawang Bandung Forest as many as 15 species of Lepidoptera which were included in, 15 families and 15 genus. A total of 98 individuals were sampled. The results show that of the 15 species of Lepidoptera that have been identified, the species with the highest abundance is *Ypthima pandocus* with an abundance value of 10 ind/m². While the lowest abundances were *Nyctemera baulus*, *Celastrina ladon*, *hyposidra talaca*, *synaphe punctalis*, *dasychira inclusa*, *Acherontia sp*, and *Antheraea sp* with an abundance value of 1 ind/m². . As for the station, the highest abundance value is at station I which has a value of 17 ind/m². The lowest is at station II which has an abundance value of 4 ind/m². For the total abundance of Lepidoptera stations in the Nyawang Forest, Bandung for station I has a value of 17 ind/m², Station II has a value of 4 ind/m², Station III has a value of 6 ind/m², Station IV has a value of 10 ind/m², Station V has a value of 6 ind/m² and Station VI has a value of 11 ind/m². The research carried out can also be used as a learning resource, especially for high school students in biology learning. Biodiversity learning materials are discussed in class X semester 1, namely in KD 3.2*

Keywords: *Nyawang Bandung, Abundance, Lepidoptera*