

ABSTRACT

Fauzia Nur Meilda, 2021. Species Abundance of the Order Coleoptera in the Nyawang Forest of Bandung, West Java. Supervised by Prof. Dr. H. Toto Sutarto Gani Utari, M. Pd., Cita Tresnawati, M. Pd., and Drs. Suhara, M. Pd.

*Coleoptera is the largest order of other insect orders. This order Coleoptera has an important role in forest ecosystems, both in organic matter degradation, environmental indicators, and biological control. Research on "Species Abundance of the Order Coleoptera in the Nyawang Forest of Bandung, West Java" was carried out on 22-23 May 2021. The aim is to find out how much abundance of species from the order Coleoptera. The research method used is a descriptive method with a belt transect research design, consisting of 6 stations with 5 quadrants at each station. The transect belt used in this research location can represent 30% of the total area. Sampling was carried out 6 times per station and the sampling technique was pitfall trap, hand sorting, insect net, and beating tray. The data taken are data on the abundance of species from the order Coleoptera and supporting data on climatic factors such as light intensity, air temperature, soil temperature, air humidity, soil moisture, and soil pH. The data results include the number of species abundances of the order Coleoptera in the Nyawang Forest of Bandung. The total individuals sampled were 68 individuals belonging to 20 families, 30 genera and 30 species. The highest abundance value of the order Coleoptera was found at station I of 14 individuals/m², and the lowest abundance value per station was at station V of seven individuals/m². The highest abundance value per species was found in the species *Otiorynchus sulcatus*, *Psyllobora renifer*, *Ceruchus piceus*, which was two individuals/m². This shows the relationship between abundance and the number of species of the order Coleoptera in the ecosystem and the vegetation in the Nyawang Forest, Bandung, influences the abundance, both in terms of climate and ecosystem factors.*

Keywords: *Abundance, Order Coleoptera, Nyawang Forest of Bandung, West Java.*