

ABTRACK

Fitri Nurul Khotimah. 2018. Diversity of Insecta in Jayagiri forest West Bandung Regency. Advisors: Drs. Suhara, M.Pd. as mentor I and drh. Nia Nurdiani, M.Si. as mentor II.

This study aims to measure the index of diversity Insecta in Jayagiri Lembang forest area West Bandung regency. The study was conducted on 14-15 April 2018. The method used in this research is descriptive method with the design of Belt Transect Quadrat in an area of 100 m² consists of 3 stations that are done on two locations in Jayagiri forest. The distance between stations is 25 meters and the distance between squares is 20 meters. Sampling samples with methods Beating Tray, Pit Fall Trap, Hand Sorting, Insect-net and Flotation methods. To find out the similarity of the different types of insecta in both locations the Sorensen Index test was used. The supporting data that is measured is the climatic factor includes air temperature, humidity and light intensity. Supporting data is processed by Multiple Linear Regression on IBM SPSS program to determine the effect of climatic factors on diversity. At the location of canopy covered forest, 51 Insecta species were included in 9 orders, 35 families and 48 genera. At the location of the forest not covered by the canopy, 46 species of insecta were included in the 5 orders, 30 families and 45 genera. Insecta species found in Jayagiri forest in both locations are *Melanotus sp.* (Coleoptera: Curculionidae), *Laccocera vanduzeei* (Homoptera: Delphacidae) and *Valanga nigricornis* (Orthoptera: Acricidae) with a Sorensen Index (IS) value of 5% which is included in the very low category. The average value of the Insecta diversity index in the two study locations was in the medium category, which was 2,591 in the canopy closed location, and 2,678 in the open location. For completeness of information related to changes in environmental conditions it is recommended to conduct periodic and ongoing research.

Keyword : Jayagiri Forest, Diversity indeks, *Insecta*.