

ABSTRACT

Tian Nur Agustiani. 2018. *Study of the Diversity and Abundance of Arthropods in the Pine Forest of Jayagiri Lembang, West Bandung Regency, as a Biology Learning Source.* Advisors : Drs. H. Ahmad Mulyadi, M.Pd. and Drs. Yusuf Ibrahim, M.Pd., M.P.

*The purpose of this researches is for getting a data about the diversity and abundance of Arthropods in the Pine Forest of Jayagiri Lembang, West Bandung Regency, as a biology learning source. This research employs the method of descriptive and the design Belt transect for 100 meters which consists of 5 stations with the distance of 25 meters each. Each station is consists of 6 squares with the distance of 20 meters each square. The sampling uses the methods of Pitfall Trap, Insect net, Hand Sorting, and flotation. Out of the observation, it is obtained 943 individuals of Arthropods including from 5 Classes, 20 orders, 62 families, 95 genera, and 105 species. The supporting measured data are in terms of climatic factors which include air temperature, humidity, light intensity, soil temperature, soil moisture, and soil pH. The data are processed using Multiple Linear Regression on the diversity and abundance. The highest species abundance values are in *Lasius flavus* (Hymenoptera: Formicidae) with the value of 124 individuals/m². The average value of the Diversity Index is 3,00 which indicates that the diversity of Arthropods in Pine Forest of Jayagiri Lembang, West Bandung Regency is in the category of medium.*

Keywords : *Abundance, Diversity, Arthropods, Lasius flavus*