

ABSTRACT

Riesty Handayani Rusnandi. 2018. Diversity of Land Fauna on Soil Surface at Jayagiri Lembang Coffee Plantation West Bandung Regency. Guided by Dr. Cartono. S.Pd., M.Pd., M.T. as Supervisor I and Mimi Halimah, S.Pd., M.Si. as Supervisor II.

This study aims to obtain data on the diversity of soil fauna on the soil surface in Coffee Garden Jayagiri Lembang West Bandung regency. The research was conducted on 14-15 April 2018. The method used in this research is descriptive quantitative method with transect belt research design consisting of 5 stations with each station length of 100 meters and the distance between 25 meter station. Each station consists of 6 squares with an area of 1x1 meter. To obtain the type of soil fauna found on the soil surface in the coffee garden Jayagiri Lembang used some sampling techniques such as pit fall trap, hand sorting, and the method of floatation. The supporting data measured in this study are climatic factors that include air temperature, humidity, light intensity, soil temperature, soil moisture, and soil pH. The soil fauna that was removed was then identified in the Biology Laboratory of FKIP UNPAS. The results obtained were 87 species of soil fauna belonging to 2 phyla, 7 classes, 15 Order, 54 families of genus. The 2 phyla found are Annelida phylum which has one class that is Clitellata and one order is Haplotaxida and phylum Arthropoda there are 6 classes that is Collembola, Chilopoda, Diplopoda Arachnida, Insekta and Protura. Most species of soil fauna derived from arthropod phylum is 3445 species. Based on the calculation obtained the average value of soil faunal diversity index on the soil surface in Jayagiri Lembang coffee garden of 1.80, the value shows the diversity of soil fauna on the soil surface in Jayagiri Lembang coffee garden included into the medium category.

Keywords: Diversity, Soil Fauna, Coffee Garden.