

ABSTRACT

Sindanita Yualianty. 2017. Diversity and Abundance of Coleoptera in Sindangkerta Beach, District of Cipatujah, Tasikmalaya Regency. Advisors: Drs. H. Ahmad Mulyadi, M.Pd. dan Drs. Suhara, M.Pd.

The aim of this study is to obtain data regarding diversity and abundance of Coleoptera in Sindangkerta Beach, District of Cipatujah, Tasikmalaya Regency. The observation is conducted on 16th – 19th of May 2017. This study employs the method of descriptive and the design of Belt-Transect-Quadrat for 250 meters which consists of 6 stations with the distance of 50 meters each. Each station consists of 6 squares with the distance of 10 meters each square. The sampling uses the methods of Pit Fall Trap, Beating Tray, and Direct Sweeping. Out of the observation, it is obtained 22 individuals of Coleoptera including 17 species from 2 Sub Order, 9 Families, and 16 Genera. The species found are *Alphitobius laevigatus*, *Anaspis sp.*, *Aphodius gissaricus*, *Aphodius sp.*, *Aulacophora hiliaris*, *Chalcosoma atlas*, *Chrysolina oricalcia*, *Coccinella undecimpunctata*, *Creophilus sp.*, *Falsomordellistena discolor*, *Lebia sp.*, *Micraspis lineata*, *Neocrepidodera ferruginea*, *Omorgus suberosus*, *Onthophagus taurus*, *Paratomoxia sp.*, and *Podagrica fusciformis*. The supporting measured data are in terms of climatic factors which include air temperature, humidity, and light intensity. The data are processed using Multiple Linear Regression on the program of IBM SPSS in order to determine the effect of climatic factors on the diversity and abundance. The highest species abundance values are in *Anaspis sp.*, *Anaspis sp.*, *Chalcosoma atlas*, *Falsomordellistena discolor*, *Micraspis lineata*, and *Neocrepidodera ferruginea* with the value of 2 individuals/m², while the other species has the abundance value of 1 individual/m². The average value of the Diversity Index is 1.111 which indicates that the diversity of Coleoptera in Sindangkerta Beach, District of Cipatujah, Tasikmalaya Regency is in the category of medium.

Keywords: Abundance, Diversity, *Coleoptera*.