ABSTRACT

Annisa Happyani Azhari. 2019. Biodiversity of Collembola Class at Kehati Fields, Kiara Payung, Sumedang District. Supervised by H. Dadi Setia Adi, M. Sc., Ph. D dan Drs. H. Ahmad Mulyadi, M. Pd., M. Pd., Ida Yayu Nurul Hizqiyah, S. Pd., M. Si., and Suhara, M.Pd.

Collembola is one of the microarthropode that have function in the ecosystem. This research was done at Kehati Fields, Kiara Payung Park, Sumedang District. The purpose of this study was to obtain information about the biodiversity of Collembola class in Kehati Fields, Kiara Payung, Sumedang District, as well as its linkages with climatic factors. The research design used was a 250 meter transect belt which was divided into 6 stations horizontally, the distance between stations was 50 meters. Each transect belt consists of 6 quadrants. The belt transect used in this study could represent 30% of the area of Kehati Fields, Kiara Payung, Sumedang District. Sampling by using pit fall trap method and litter flotation method. The results showed there were obtained 4 species from 1 order, and 3 families. Biodiversity index value from 6 stations is 0.87 which is categorized as low biodiversity (H' $\leq$ 1).

Keywords: Collembola, ecosystem, biodiversity