

ABSTRACT

SYIFA SAFRINA KHAIRANI. 2016. The Diversity of Bryophytes at Selabintana Track of Mount Gede Pangrango National Park West Java. Supervised by DRS. H. AHMAD MULYADI, M.PD. and DRS. OTANG HIDAYAT, M.PD.

Bryophytes include are a group of low-level plants, which generally do not have a conducting tissues (nonvaskuler), the body is composed of parenchymal tissue and has rhizoid. Bryophytes have an important role in the ecosystem, such as oxygen providers, maintaining the balance of water, habitat for certain organisms, as indicators of air pollution, and climate change indicators. Bryophytes are found in moist areas and wetlands, also in extreme environments such as mountain peaks. This study aimed to obtain information about the diversity of Bryophytes in Selabintana Track of Mount Gede Pangrango National Park, West Java. The method used is descriptive method. Sampling was conducted in Selabintana at different heights. On that path determined three study sites, each site was made path or line measuring 200 m. The sampling technique used means lines or transects. At each location was selected host trees that have the characteristics of stem diameter at breast height of more than 20 cm. Next on every host tree made three plots measuring 20 cm x 20 cm. Sampling is done on the host tree to a height of 0-200 cm above the ground. Abiotic factor measurements made when sampling that includes temperature, humidity, and light intensity. The conclusion from this study indicated that the total Bryophytes have been found from the three study sites are 54 species which consists of 36 genera and 19 families. The figures include 39 species of mosses (26 genera, 12 families) and 15 species of liverworts (9 genera, 7 families). Shannon-Wiener index (H') in the Selabintana showed high category with a value of difference of 3.72. The result of the calculation of the Shannon-Wiener (H') showed that the families Dicranaceae has the highest diversity values. In addition, the families have a fairly broad distribution with the discovery of various types of Bryophytes that is included in Dicranaceae at each study sites.

Key word: Diversity, bryophytes, Shannon-Wiener index.