

ABSTRACT

Melinda Yustiva Sumarra, 2017. Pattern of Competition between *Cerithidea cingulata* and *Telescopium sp* (Gastropoda: Potamididae) based on the Depth of the Cipatireman Estuary, Sindangkerta, Cipatujah District, Tasikmalaya Regency. Advised by H. Dadi Setia Adi, M.Sc., Ph.D. and Drs. Suhara, M.Pd.

The research on the “Pattern of Competition between *Cerithidea cingulata* and *Telescopium sp* (Gastropoda: Potamididae) based on the depth of the Cipatireman Estuary, Sindangkerta, Cipatujah District, Tasikmalaya Regency” has been conducted on May 16-19, 2017. This research was intended to obtain information on the pattern of competition between *Cerithidea cingulata* and *Telescopium sp* based on the depth of the estuary. The research methods used were descriptive methods with belt transect research design and hand sorting sampling technique. The research stations consisted of six stations with three quadrates on the Cipatireman Estuary. The sampling was conducted three times in every research station. The size of quadrat plot used was 1 m x 1 m. The data obtained were the data of the number of *Cerithidea cingulata* and *Telescopium sp* and the supporting data of the environment (water temperature, pH, dissolved oxygen, salinity and content of organic materials). The sample identification was conducted at Biological Laboratory, Faculty of Teacher Training and Education of Universitas Pasundan Bandung. The data analysis involved the pattern of competition between *Cerithidea cingulata* and *Telescopium sp* based on the depth of the estuary. The results of the research conducted on the estuary show that the number of the species *Cerithidea cingulata* was higher in all stations and depths of estuary in comparison to the species *Telescopium sp*. The results show a pattern of competition, in which the competition was won by the species *Cerithidea cingulata* with a comparison of 4.8 : 1 at the depth of 10 cm, 20 : 1 at the depth of 40 cm and 5.3 : 1 at the depth of 80 cm.

Keywords : Cipatireman, pattern of competition, *Cerithidea cingulata*, *Telescopium sp*.