ABUNDANCE AND DIVERSITY OF ZOOPLANKTON IN THE SINDANGKERTA BEACH DISTRICT CIPATUJAH TASIKMALAYA REGENCY

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ABSTRACT

The purposes of this study were to investigate abundance and diversity of zooplankton in the Sindangkerta Beach, District Cipatujah, Tasikmalaya Regency. This study was conducted in April 2016. The method used is the descriptive method with *Belt Transect* design and sampling technique using a net plankton. Research station consists of six stations and each station consist of five squares. Variables examined is the abundance and diversity of zooplankton. Physical-chemical parameters measured include temperature, pH, *Dissolved Oxygen* (DO), salinity, and content of organic matter. Effect of physical-chemical parameters of the abundance and diversity of zooplankton were analyzed through multiple linear regression and using the data processing is SPSS 23. Identification of samples conducted at the Laboratory of Biology FKIP Pasundan University Bandung. The results showed that the abundance of zooplankton has an average range between 1245-3995 individuals/L. Zooplankton species composition obtained are 12 species included in four classes: Crustaceans (7 species), Gastropods (2 species), Ciliate (1 species), and Rotifera (2 species). Diversity index (H ') zooplankton ranged from 1-2, with an average of 2. The value of diversity index (H') showed that zooplankton in the Sindangkerta Beach have a moderate species diversity and community stability is quite stable.

Keywords: Abundance, diversity, Sindangkerta Beach, zooplankton, *Belt transects*, net plankton.