

ABSTRACT

NAJMA IBNATULLAIL. 2025. STUDY ON THE DIVERSITY AND DISTRIBUTION PATTERNS OF MANGROVES ON TANJUNG KAIT BEACH, TANGERANG REGENCY AS A SUPPLEMENT TO BIOLOGY TEACHING MATERIALS. Department of Biology Education, Faculty of Teacher Training and Education. Siliwangi University, Tasikmalaya.

*This study aims to analyze the diversity and distribution patterns of mangrove species in Tanjung Kait Beach, Tangerang Regency. This study used a quantitative descriptive method with a survey approach at three observation stations using a 10x10 meter plot. Data were analyzed using the Shannon-Wiener diversity index formula, uniformity index, Simpson's dominance index, morisita index and important value index (INP). The results of this study found 6 types of mangroves with the highest importance value index (INP) value was in *Rhizophora mucronata* species of 110.5% at each station. Mangrove diversity based on Shannon-Wiener index (H') of the three stations with an average of 2.45, which is classified in the medium category. The uniformity index (E) of the three stations with an average of 0.65 indicates a fairly uniform population, while the dominance index (D) of the three stations with an average of 0.43 indicates the absence of dominance of certain species. The distribution pattern analyzed using the Morisita index at station 1 shows a value of 0.38, at station 2 of 0.40 which indicates an even distribution pattern. While at station 1 with a value of 2.22 which indicates a clustered distribution pattern. These results indicate that the mangrove ecosystem at Tanjung Kait Beach has a fairly good diversity with random and clustered distribution patterns, supporting its function as an important habitat for coastal biota. And is expected to provide important information to support conservation and mangrove management efforts in the Tanjung Kait Beach area.*

Keywords: Mangrove: Distribution; Diversity; Index.