

## ABSTRACT

Anova. Yusti Martena Afrit. 2013. The variety of mangrove in the beach of Panggungrejo, Pasuruan. Thesis. Department of Biology, Faculty of Science and Technology State Islamic University of Maulana Malik Ibrahim Malang. Advisor I: Dwi Suheriyanto, M.P. Advisor II: Ach. Nashichuddin, M.A.

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Mangrove has unique characteristics and living in areas affected by the tide. Mangrove forest area has the potential to study diversity. Panggungrejo districts located in Pasuruan that there are some places the harbor and the industry has progressed very rapidly. The progress was not able to give the maximum positive impact on coastal areas. Mangrove forests in the coastal area have been degraded resources. The purpose of this study was to determine the types of mangrove obtained, mangrove diversity, and importance value index (INP) in coastal districts Panggungrejo Pasuruan.

The research was conducted in coastal villages Tambaan, Ngemplakrejo, and Panggungrejo Pasuruan district. The method used is the belt transects method that extends towards the coast. At each transect plot made for the tree level with size 20 x 20 cm, and 10 x 10 for small trees, 5 x 5 and 2 x 2 stakes for Seedlings.

The results showed that, there are 9 species belonging to the genus 7 and 5 families were found on the beach Panggungrejo Pasuruan district. Diversity index of 1.47 for seedlings, saplings at the rate of 1.09, at a rate of 1.7 pole, while at the tree level of 1.55. Dominance index at the level of 0.24 seedlings, saplings at the rate of 0.33, at a rate of 0.19 pole, while at the tree level of 0.22. Diversity index at the level of the tree, pole and seedling height included in the criteria, and inversely with the dominance index with low criteria. While the diversity index and dominance index of saplings including being included in the criteria. Importance Value Index (INP) is obtained in the coastal district of Pasuruan Panggungrejo seedlings at the highest level is *Excoecaria agallocha* of 77.82, the highest level is the stake that *Avicennia marina* amounted to 125.6, the highest level of the pole is *Avicennia alba* at 79, 67, whereas at the highest level of the tree is *Rhizophora apiculata* at 77.84.