

ABSTRACT

Zainullah. 2012. The structure composition of mangrove forests in Coastal Wetland Marine Village Town District Kusuma Sangkapura Bawean Island Gresik regency. Thesis Department of Biology Faculty of Science and technology Maulana Malik Ibrahim Islamic University of Malang. Supervisor: Dwi Suheriyanto, M.P. and Munirul Abidin, M. Ag.

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Mangrove has the role of ecological and economic importance to the environment that are around, aim of this study were (1) Identifying plant species in the mangrove forest constituent Rice Sea Island City Kusuma District Sangkapura Bawean Gresik district (2). To determine the diversity of mangrove forests in Rice Sea Island City Kusuma District Sangkapura Bawean Gresik district.

he method used is to use quadratic transect method is to draw a straight line extending from the coast up to an area of mangrove trees that do not exist .. Study site was divided into 6 stations along the mangrove shoreline north of the river. Each station is made 7 plot. The division of the distance between stations is 1 m² station. Then enter the respective transects made the station with a length of around 100 m² of land to the edge of the area not covered with mangrove trees is 1 km². Coastal mangrove forests in Rice Village Sea Island City Kusuma District Sangkapura Bawean Gresik regency, At each transect, vegetation data taken using size 10x10 m² squares method for staging trees (diameter> 10 cm) and the size of 5x5 m² for stage stake (pole).

Having obtained the structure of the composition of the mangrove vegetation of the most dominating of the family *Rhizophora lamarki* with INP of 236.981% in phase while the phase of tree saplings with INP of 136.279%. Based on the index while the Shannon-Wiener, the diversity of mangroves in Coastal Wetland Marine Village Town District Kusuma Sangkapura Gresik regency Bawean Island mangrove tree species is low, because the mangrove communities in Coastal Wetland Sea composed by few species and only one species is dominant *Rhizophora lamarki*.