

## **ABSTRACT**

*This study aims to evaluate and determine the suitability of land for durian (*Durio zibhetinus* Murr.) crops in Tonjong Sub-district of Brebes Regency, Central Java. Research activities on land suitability evaluation for durian crop (*Durio zibhetinus* Murr.) were conducted in Tonjong Sub-district of Brebes Regency, Central Java. Soil analysis was conducted at Soil Laboratory of University of Muhammadiyah and Research Institute of Land and Environment (Balingtan) Pati with research time starting from May 2017 to September 2017.*

*The research was conducted by using observation method to collect primary data and secondary data. Primary data is obtained through field observation and laboratory to know the description of land characteristic in Tonjong District, while secondary data is supporting research data obtained through related office. The classification of the suitability of durian crop fields is based on FAO method (1976).*

*The result shows that Tonjong Sub-district has an actual land suitability class for durian plants in the form of S3 or marginally suitable according to some limiting factors such as Oxygen (Drainage) availability, Nutritional Retention (C-organic), and Available Nutrient (N, P, K). Improvement efforts need to be made to convert the actual land suitability class into potential by creating irrigation channels, adding organic materials, and fertilizing.*

*Key words : Evaluation of Land Suitability, Durian, Observation, Land Characteristic.*