

Pengaruh Penggunaan Blue-green Algae Dan Pupuk N Terhadap Produksi Dan Mutu Benih Padi (*Oryza Sativa* L.), *The Influence of the use Of Bluegreen Algae and N Fertilization In Increasing The Production And Quality Of Rice Seeds (Oryza Sativa L.)* Advisor : *Dwi Rahmawati, SP, MP and Dr. Rizal, SP, MP*

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ABSTRACT

The influence of the use of Bluegreen Algae and Nitrogen fertilization in increasing the production and quality of rice seeds (Oryza sativa L.) The research was conducted in October 2016 - January 2017 at the Polytechnic of Jember land and Seed Technology Laboratory in Polytechnic of Jember. The experimental design used was Randomized Block Design (RBD) factorial with 2 factors and 3 replications. The first factor is the use doses of bluegreen algae, consists of: 5 kg/ha (B1), 10 kg/ha (B2), and 15/ha (B3), The second factor are the doses of Nitrogen, consists of: 100 kg / ha of urea (N1), 200 kg / ha of urea (N2), 300 kg / ha of urea (N3). To analysis data used F test (ANOVA) and continued with calculation Least Significance Difference (LSD) the error level is 5%. The results showed that treatment the use of bluegreen algae impact on production and will not effect the qu ality of rice seed, Bluegreen Algae 15kg/ha (B3) gives the best result with production 11,46 ton/ha. Whereas Nitrogen fertilization effect to the production and quality of rice seed, 300 kg / ha of urea (N3) gives the best result with production 11,81 ton/ha. And there is no interaction between the Bluegreen Algae and N fertilization to the production and quality of rice seed.

Keywords: *Bluegreen Algae, Nitrogen fertilization, Seed Production and Quality of Rice Seeds*