Uji Cara Aplikasi Dan Dosis Pupuk Hijau Lamtoro Terhadap Produksi Dan Kualitas Benih Jagung (*zea mays L.*) Test Method of Application and Dosage of Lamtoro Green Fertilizer on Production and Quality of Seed Corn (Zea mays L.)

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ABSTRACT

Corn (Zea mays L.) is included in the second food crop after rice. It is predicted by (Santoso 2022) that national corn production could reach 23 million tons this year. In 2021, national corn production is estimated to reach 15.79 million tons. This increase in production was due to the support of the weather and the increase in the planting area. With the continued increase in corn production in Indonesia, the demand for fertilizer is also increasing. Because subsidized fertilizers from the government are not sufficient for planting needs, farmers have to buy non-subsidized fertilizers. This concerns the quality of the crop. Corn is one of the plants that is sensitive to nutrient deficiencies, especially nitrogen (N), the availability of N, P, and K in the soil. Green manure is one of the solutions to the problem of shortage of fertilizers in Indonesia which is very easy to decompose and also contains a lot of nutrients, especially nitrogen which is needed by corn plants. To determine the effect of the application of green manure (lamtoro) on the production and quality of corn seeds. This research was carried out in paddy fields in the area of Slawu, Jember, East Java. This study used a factorial randomized block design (RBD), consisting of two factors. The first factor was the method of green manure application; A1 : Green Fertilizer (stocked), A2 : Green Fertilizer (infused). The second factor is the difference in the dose of green manure; B0 : 0 ton/ha (0 g/pot) control, B1 : 5 ton/ha (1.5 kg/plot), B2 : 10 ton/ha (3 kg/plot), B3 : 15 ton/ha (4 .5 kg/plot), B4 : 20 tonnes/ha (6 kg/plot). The data will be analyzed using ANOVA (analysis of variance) and will be tested using the DMRT follow-up test with a level of 5%.

Key Word : Corn, green manure, Application