

The Effectiveness Test of Biochar Three In One on The Growth of Spring Onions Plants (Allium fistulosum L.)

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ABSTRACT

West Java in 2022 will experience a decrease in onion production by 9,040 tons based on the Central Statistics Agency (2023). Spring onions production is still relatively low due to inappropriate cultivation choices and not using optimal planting media and fertilizers. There is a need to increase production, productivity and quality of vegetables with cultivation techniques using biochar three-in-one consisting of husk charcoal, compost and EM4. This research aims to determine the effectiveness of biochar three-in-one on the growth of spring onion plants (Allium fistulosum L.). The research was conducted at Greeh House Handaru Lembang. The research implemented an experimental method using a Completely Randomized Design design with six treatments, four repetitions, and the data obtained was analyzed using the IBM SPSS Statistics 26. The treatments given were A (0 grams of biochar three in one /polybag), B (35 grams of biochar three in one /polybag), C (40 grams of biochar three in one /polybag), D (45 grams of biochar three in one /polybag), E (50 grams of biochar three in one /polybag), and F (55 grams of biochar three in one /polybag). The results of the research showed that the biochar three-in-one was effective on the growth of spring onions (Allium fistulosum L.) plant height, namely at a dose of 55 grams (F), on the number of leaves the biochar three-in-one biochar was effective at a dose of 55 grams (F), and on plant weight. biochar three in one is effective at a dose of 45 grams (D). Analysis of data and research results testing the effectiveness of three-in-one biochar can be concluded to be effective on the growth of leek plants (Allium fistulosum L.).

Keywords : *Biochar Three In One, Dose, Spring Onions Plant*