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PENGARUH ALGIFERT DAN CYCOCEL TERHADAP PERTUMBUHAN DAN PRODUKSI BAWANG PUTIH (*Allium sativum* L.) VARIETAS LUMBU PUTIH[1)]

The effect of Algifert and Cycocel on Growth and Production of Garlic (Allium sativum L.) Varietas Lumbu Putih

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ABSTRACT

*This experiment was conducted to determine the effect of plant growth regulator (Cycocel) and Algifert on growth and bulb production of garlic (*Allium sativum *L.) cv. 'Lumbu Putih'. The experiment was set up randomized complete block design. Treatments were consisted of combination of Algifert and Cycocel applications. Algifert treatments consisted of spraying 0 (A_0), 2 (A_1), 4 (A_2), 6 (A_3) and 8 ml/l (A_4) Algifert solution on to garlic plants, while Cycocel treatments consisted of spraying 0 (C_0), 500 (C_1), 1000 (C_2), and 1500 (C_3) Cycocel solution. Algifert spraying was conducted at 3, 5, 7, 9 and 11 week after planting, while Cycocel was at 8 week and 10 week after planting.*

Result of the experiments indicated Algifert and Cycocel treatments did not significantly affect growth and bulb yield of garlic. However, interaction affects of Algifert and Cycocel significantly reduced total number of cloves of each garlic bulb. Comparation mean analyzis showed A_2C_3 (Algifert 4 ml/l with Cycocel 1500 mg/l) treatment resulted in significantly lower total number of cloves of each garlic bulb than A_2C_0 or A_2C_1 (Algifert 4 ml/l with or with out Cycocel 500 mg/l) treatments, respectively. Treatment combination A_2C_3 significantly reduced the total number of cloves each bulb. However, the reduction of total number of cloves was not followed by increased in the size of the cloves. The results of the experiment also indicated the presence of positive correlation among parameters recorded. The total weight of harvested biomass were positively correlated with diameter of the bulb, number of clove, dry weight of the bulb, and dry matter contain of the bulb, respectively.

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