

**Pengaruh Komposisi Media Tanam dan Pupuk Nitrogen Terhadap Produksi dan Mutu Benih Mentimun (*Cucumis sativus L.*). The composition effect of planting media and nitrogen fertilizer to production and quality of cucumber seed (*Cucumis sativus L.*)**

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**ABSTRACT**

*The purpose of this research is to know the production and quality of cucumber seed (*Cucumis sativus L.*) on planting media composition and the best nitrogen fertilizer treatment in influencing the production and quality of cucumber seeds. The research had conducted for 3 months, from June 2017 to August 2017 in Jatigono village, Kunir, Lumajang. The research was conducted by Factorial Group Randomized Block Design (RBD) with 2 factors and 3 repetitions. The first factor is the composition of plant media that consist of 4 Top soil (M0), 2 Top soil: 2 cow manure (M1), 2 Top soil: 1 cow Manure: 1 Coco peat (M2). The second factor is the dose of nitrogen fertilizer that consist of 225, 168,7 and 112,5 Kg / Ha, followed by the Duncan Multiple Range and Least Significant Different Test with error level 1%. The results showed that the composition of planting media significantly affected (\*) on the seed weight per plant and the Sequence of Seed Growth and very significant (\*\*) on the weight of 1000 grains, and the best application is M2 (2 Top soils: 1 Cow Manure: 1 Cocopeat). The treatment of nitrogen fertilizer dosage had highly significant effect(\*\*) to the weight of 1000 seeds. There was highly significant interaction (\*\*) between planting media composition and the treatment of nitrogen fertilizer dosage to seed weight each plant.*

**Key words:** *composition, planting media, nitrogen fertilizer dosage, cucumber*