Effect of Manure Fertilizer and Plant Spacing to yield of Okra **(*Abelmoschus esculentus*). Advisor: Ir. Suratno, MP dan Ir. Djenal, MP.**

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ABSTRACT

The purpose of this research is to know the effectof Cow Manure Fertilizer to yield of Ocra, know the effect of plant spacing to yield of Okra, and know the interaction of Cow Manure Fertilizer and plant spacing to Ocra. This research was conducted from November 2014-Februari 2015 at Jember State Polytechnic Practical Area, ± 89 m asl. This research used Randomized Block Design (RBD) with 6 treatment and 4 time replication. first factor is plant spacing consist of 2 treatment, J1 = 40 x 40 cm, J2=40 X 60 cm, while second factor is cow manure fertilizer consist of 3 treatments, P1 = 10 ton/ha, P2 = 15 ton/ha, P3 =. 20 ton/ha. The result of research show that cow manure fertilizer and plant spacing give non-significant effect to vegetative phase parameter, such as height of plant 22 dap, 44 dap, 66 dap, and sum of leaf 22 dap, generative phase such as long of fruit, sum of fruit,weight of fruit per sample, and weight of fruit per plot. Result of significant effect due to factor of plant spacing, manure fertilizer to parameter of sum of leaf 44 dap and continued by DMRT at 5% level.

Keywords :Manure Fertilizer, Plant Spacing, and Okra