

ABSTRAK

THE EFFECT OF VARIANT AND COMLEMEN FERTILIZER ON GROWING AND PRODUCTION OF MELON (*Cucumis melo* L.) SKY ROCKET KULTIVAR

By

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Melon (*Cucumis melo* L.) is the one of vegetable that has a high commercial price. Manure fertilizer (chicken, goat, rabbit, and cow) on the basic fertilizer, because its could fix the chemical, physic and biologys unsure of soil. Complimen Fertilizer contain the micro unsure could complementing the decreasing organic fertilizer.

The purpose: (1) knowing the effect of application the variant of fertilizer on melon's growing and production; (2) knowing the effect of concentration on compliment fertilizer on growing and production of melon; (3) knowing if there is dependency between the variant of manure fertilizer and concentration of compliment fertilizer in order to produce growing and production of melon. The research uses factorial treatment design (4 kinds of manure fertilizer (chicken, Goat, rabbit, sapi) x 4 concentration of Plant catalyst (0,1,2,3 g/l) on perfect random group design and do it 3 times. Its using uniform analyze and fulfill assumption on uniform analyze is testea with bartllet and aditivity tested with tukey, and its's continued with polinomial ortogonal an 5% level.

The result of research shows that application of manure fertilizer such as chicken, rabbit, or cow don't make a different respons an plant's heigh changing, leaves number, fruit weight and solution total; but application of goat manure fertilizer make a best respons on fruit diametre. Application of compliment of fertilizer an 3 g/l concentrate doesnt make a differences on growing and the result melon. Goat manure fertilizer and compliment fertilizer 2 g/l make a highest of diametre of melon.

Kata kunci : melon, manure fertilizer, Plant Catalyst.