Dose application of Phonska Fertilizer on planting system of Jajar Legowo Toward Production of soybean (*Glycine max* L.) varieties of Grobogan

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ABSTRACT

This study aims to find out the effect of phonska fertilizer dose application on planting system of jajar legowo toward production of soybean (*Glycine max* L.) varieties of Grobogan. Study was conducted at the Polytechnic of Jember land.The Time schedule of this study starts from the month of October 2015 to February 2016. The method used is a randomized block design (RBD) with two factors. The treatment was attempted on one factor (P) was the concentration at three levels ie the dose of phonska fertilizer as much as 200kg/ha (P1), giving the dose of phonska fertilizer as much as 250kg/ha (P2) and giving the dose of phonska fertilizer as much as 300kg/ha (P3), mean while the two factors (J), was planting system of jajar legowo using three levels ie conventional planting distance (J1), planting system of jajar legowo 2:1 (J2) and planting system of jajar legowo 3:1 (J3). These results of this study shouved that the interaction treatment between fertilizers phonska 0.8grams/ha (200kg/ha) and convensioanal planting system (P1J1) gave the real effect on high observation in the plant of 21 day after planting 43,23cm, interaction between fertilizers phonska 1,2grams/ha (300kg/ha) and planting system of jajar legowo 3:1 (P3J2) provides a real influence on the parameters productive branch number with the number of branches of 3.23 and interaction between fertilizers phonska 1grams/crop (250kg/ha) and convensioanal planting system (P2J1) gave the real influence toward the parameters on the results of the weight of pods/sample weight of 54.20 grams and the results of pods/plot of 4.00 kg and the average weight of seed/sample 10 grams and the weight of seeds/plot 740 grams. Mean while the treemant phonska dose and planting system of jajar legowo did not significantly affected all observations.

Key words: *Phonska Fertilizer, Soybean* (*Glycine max* L.) *varieties of Grobogan, Dose and planting system of jajar legowo.*