

**RESPONS OF CORN PRODUCTION (*Zea mays L.*) TO APPLICATION OF
LIQUID ORGANIC FERTILIZER BANANA STEMS AT VARIOUS
PLANTING DISTANCES**

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ABSTRACT

The use of liquid organic fertilizer for banana stems can increase the nutrient content of the soil and can increase the production corn plants. Fertilization must pay attention to concentration and spacing because these two factors are closely related increasing maize production. This study aims analyze the concentration and use of appropriate spacing. This study aims to analyze the concentration and use of appropriate spacing. This research was conducted in April-August 2022, located in Bintoro Village, Patrang, Jember Regency using a factorial randomized block design. The results showed the interaction between treatment with POC concentration of banana stems 100 ml/l and spacing of 40x20 cm was the best recommendation which showed a significant difference in the wet weight of cobs per sample with an average of 158.625 g, wet weight of per plot with an average of 181.26 g, dry weight per plot with an average of 2742.67 g, length of 16.25 cm, dry shelled weight per sample with an average of 107.278 g, dry shelled weight per plot 1669.33 g. The concentration of 100 ml/l of banana stem POC water showed significantly different results in the dry weight of the stover per sample with an average of 181.26 g, the diameter per sample with an average of 4.42 cm and the weight of 100 seeds per plot having an average of 31.78 g. Planting distance of 40x20 cm showed significantly different results on the observation variable of dry weight of per sample which had an average of 121.64 g.

Keywords: Banana Stems, Distances, Corn, Liquid Organic Fertilizer