

**THE EFFECT OF PROVISIONING ORGANIC FERTILIZER CHICKEN
AND PLANT DISTANCE MANAGEMENT ON THE GROWTH AND
PRODUCTION OF KOMAK NUT (*Lablab purpureus* L. sweet)**

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ABSTRACT

Komak beans are legumes that contain quite high nutrients and vegetable protein and rank third after soybeans and peanuts. Komak beans have great potential to be an alternative substitute for soybeans to meet the needs of the food industry. The application of organic chicken manure and spacing is aimed at increasing the growth and production of comak nuts. This research was conducted to determine the dosage of chicken manure organic fertilizer and spacing on the growth and production of komak beans. This research was conducted in Kemuning Lor Village, Arjasa District, Jember Regency in the period November 2019 to June 2020. This study used the RAK method with 2 factors, namely the dose of organic chicken manure and spacing settings. In the dose factor of organic chicken manure, there are 4 treatments, namely: without fertilizer, a dose of 5 tons / Ha, 10 tons / Ha, and 15 tons / Ha, while the spacing factor has 3 treatments, namely: spacing 30 x 20, 40 x 10, and 40 x 20 cm and significant results will be further tested with DMRT levels of 5% and 1%. The results showed that the treatment affected the parameters, number of branches, number of root nodules, number of active nodules, weight of root nodules, number of pods, number of pithy pods, pod weight, dry weight of seeds, wet weight of stover and dry weight of stover, gave an average the highest yield was at a fertilizer dose of 15 tonnes / ha and a spacing of 40 x 20 cm. The treatment had no effect on the weight parameter of 100 seeds.

Keywords: *chicken manure, spacing, yield*