

“Aplikasi Berbagai Konsentrasi Pupuk Organik Cair dan Paclobutrazol terhadap Produksi dan Mutu Benih Semangka (*Citrulus lanatus L.*)”, Hafid Anshori, NIM A41180625, Dosen Pembimbing Ir. Dwi Rahmawati SP, M.P. IPM

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### ***ABSTRACT***

Watermelon (*Citrulus lanatus L.*) is one of the horticultural commodities that are quite popular in Indonesia. Watermelon fruit has a sweet, crunchy texture and juicy taste and also had good nutrition for the bodies at an economic price. This research was conducted in January 2022 – March 2022 at Dukuh Mencek Village, Panti District, Jember Regency, East Java, Indonesia. This research uses Completely Randomized Block Design (RCBD) with 12 factors and 3 replications. P0 = No added liquid organic fertilizer, P1 = add a liquid organic fertilizer 7 ml/L, P2 = add a liquid organic fertilizer 8 ml/L, K0 = no added Paclobutrazol Concentrate, K1 = add paclobutrazol concentrate 0,250 ml/L, K2 = add a paclobutrazol concentrate 0,375 ml/L, K3 = add a paclobutrazol concentrate 0,500 ml/L. Analysis of the data using the F test (ANOVA) and if there is a significant difference then proceed with the calculation of DMRT (Duncan's Multiple Range Test) with an error rate of 5%. Treatment of adding a dose of liquid organic fertilizer of 8 ml/L and a concentration of paclobutrazol of 0,375 ml/L (P2K2) got the best results on fruit weight parameters, with average weight 4,14 kg. Liquid organic fertilizer gives the best effect on growth rate parameters of 49.55. the number of full seeds with an average of 203.25 grains, and production per hectare with an average production of 52,63 kg per hectare. The best concentration of paclobutrazol was seen in the weight parameter of 1000 grains with an average weight of 26.48 grams.

***Key words :*** Adding liquid organic fertilizer, Paclobutrazol, water melon