PENGARUH KOMBINASI LAMA PERENDAMAN BIBIT DALAM AIR KELAPA DAN TAKARAN PUPUK KANDANG PUYUH PADA MEDIA TANAM TERHADAP PERTUMBUHAN BIBIT PISANG *(Musa spp.)* KULTIVAR CAVENDISH

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ABSTRAK

Pisang *(Musa spp.)* merupakan tanaman yang umumnya diperbanyak secara vegetatif, yaitu dengan menggunakan anakan yang tumbuh dari bonggolnya. Masalah yang dihadapi dalam menanam pisang Cavendish diantaranya adalah pertumbuhan yang lambat dan terbatasnya jumlah anakan. Penelitan dilakukan pada bulan Agustus sampai November 2019. Penelitian bertujuan untuk memperoleh kombinasi lama perendaman bibit dalam air kelapa dan takaran pupuk kandang puyuh pada media tanam yang tepat terhadap pertumbuhan bibit pisang *(Musa spp.)* kultivar Cavendish. Penelitian ini menggunakan Rancangan Acak Kelompok (RAK) sederhana yang terdiri dari 3 ulangan. Perlakuan terdiri dari A = kontrol, B = perendaman bibit 15 menit; pupuk kandang puyuh + tanah 1:1, C = perendaman bibit 15 menit; pupuk kandang puyuh + tanah 1:2, D = perendaman bibit 15 menit; pupuk kandang puyuh + tanah 1:3, E = perendaman bibit 30 menit; pupuk kandang puyuh + tanah 1:1, F = perendaman bibit 30 menit; pupuk kandang puyuh + tanah 1:2, G = perendaman bibit 30 menit; pupuk kandang puyuh + tanah 1:3, H = perendaman bibit 45 menit; pupuk kandang puyuh + tanah 1:1, I = perendaman bibit 45 menit; pupuk kandang puyuh + tanah 1:2, J = perendaman bibit 45 menit; pupuk kandang puyuh + tanah 1:3. Parameter yang diamati adalah tinggi tanaman, jumlah anakan, jumlah daun, diameter batang, jumlah dan panjang akar. Hasil penelitian menunjukkan bahwa kombinasi lama perendaman bibit dalam air kelapa selama 30 menit dan takaran pupuk kandang puyuh + tanah 1:2 memberikan hasil terbaik pada tinggi tanaman, jumlah anakan, jumlah daun dan panjang akar, sedangkan kombinasi lama perendaman bibit dalam air kelapa selama 45 menit dan takaran pupuk kandang puyuh + tanah 1:1 memberikan hasil terbaik pada diameter batang dan jumlah akar.

Kata Kunci : bibit pisang Cavendish, lama perendaman, air kelapa, pupuk kandang puyuh, media tanam

THE EFFECT OF COMBINATION OF LONG SOAKING THE SEEDS IN COCONUT WATER AND THE DOSAGES OF QUAIL MANURE ON THE PLANTING MEDIA TO THE GROWTH OF BANANA SEEDS *(Musa spp.)* CAVENDISH CULTIVARS

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ABSTRACT

Bananas *(Musa spp.)* are plants that are generally propagated vegetatively, using saplings that grow from their bulbs. Problems encountered in growing Cavendish bananas include slow growth and a limited number of tillers. The study was conducted in August to November 2019. The aim of this study was to obtain a combination of long soaking in coconut water and quail manure dosages in the right growing media for the growth of banana *(Musa spp.)* Cavendish cultivars. This study uses a simple randomized block design (RBD) consisting of 3 replications. The treatment consisted of A = control, B = soaking the seeds for 15 minutes; soil + quail manure 1:1, C = soaking the seeds for 15 minutes; soil + quail manure 1:2, D = soaking the seeds for 15 minutes; soil + quail manure 1:3, E = soaking the seeds for 30 minutes; soil + quail manure 1:1, F = soaking the seeds for 30 minutes; soil + quail manure 1:2, G = soaking the seeds for 15 minutes; soil + quail manure 1:3, H = soaking the seeds for 45 minutes; soil + quail manure 1:1, I = soaking the seeds for 45 minutes; soil + quail manure 1:2, J = soaking the seeds for 45 minutes; soil + quail manure 1:3. The parameters observed were plant height, number of tillers, number of leaves, stem diameter, number and length of roots. The results showed that the combination of seed long soaking in coconut water for 30 minutes and quail manure + soil measurements of 1:2 gave the best results on plant height, number of tillers, number of leaves and root length, while the combination of soaking time of seeds in coconut water for 45 minutes and quantities of soil + quail manure 1:1 give the best results on stem diameter and number of roots.

Keywords: Cavendish banana seedlings, long soaking, coconut water, dosages, quail manure, planting media