Pertumbuhan Dan Hasil Tanaman Stroberi *(Fragaria* Sp.*)* Pada Berbagai Kerapatan Naungan Dan Media Substrat Secara Hidroponik Di Dataran Rendah

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ABSTRAK

Tanaman stroberi banyak dikembangkan di daerah beriklim tropis. Untuk menghasilkan tanaman yang berkualitas perlu adanya pengembangan kondisi agroekosistem didataran rendah dengan merekayasa lingkungan tempat tumbuh tanaman stroberi didataran rendah. Penelitian bertujuan untuk mengetahui tingkat kerapatan naungan dan jenis media tanam yang paling baik untuk pertumbuhan dan hasil stroberi (*Fragaria* sp) di dataran rendah secara hidroponik. Metode penelitian menggunakan Rancangan Split plot. Main plot adalah kerapatan paranet yang terdiri dari Paranet 25%, Paranet 40%, dan Paranet 55%. Sub plot adalah jenis media tanam Arang sekam, *cocopeat* dan Arang sekam+*cocopeat* (1:1). Data dianalisis menggunakan Analisis Sidik Ragam (ANOVA) dengan taraf 5%. Uji lanjut perlakuan dilanjutkan dengan DMRT taraf 5%. Hasil percobaan menunjukkan Perlakuan kerapatan paranet 55% memberikan hasil nyata pada parameter tinggi tanaman umur 6,8,10,12 MST dan bobot basah tanaman. Perlakuan jenis media tanam arang seka dan *cocopeat* memberikan hasil nyata pada tinggi tanaman umur 4,6,8,10 dan 12 MST. Media tanam arang sekam:cocopeat (1:1) memberikan hasil paling baik pada bobot basah tanaman tanpa buah.

Kata kunci : *Stroberi, Naungan, Media Substrat, Hidroponik*

Growth And Yield Of Strawberry Plants (Fragaria Sp.) At Various Density Of Shade And Substrate Media In Hydroponics In the Lowlands

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ABSTRACT

Strawberry plants are widely developed in tropical climates. To produce quality plants, it is necessary to develop agro-ecosystem conditions in the lowlands by engineering the environment where strawberry plants grow in the lowlands. The aim of the study was to determine the level of shade density and the type of growing media that was best for the growth and yield of strawberries (Fragaria sp) in the lowlands hydroponically. The research method uses a split plot design. The main plot is the paranet density consisting of 25% Paranet, 40% Paranet, and 55% Paranet. The sub plots are the types of growing media: husk charcoal, cocopeat and husk charcoal+cocopeat (1:1). Data were analyzed using Analysis of Diversity Prints (ANOVA) with a level of 5%. Further test treatment continued with DMRT level 5%. The experimental results showed that the 55% paranet density treatment gave significant results on the parameters of plant height at 6,8,10,12 WAP and plant wet weight. Treatment of seka charcoal and cocopeat growing media types gave significant results at plant heights of 4,6,8,10 and 12 WAP. Husk charcoal:cocopeat (1:1) planting medium gave the best results on wet weight of plants without fruit.

Keywords*: Strawberry, Shade, Substrate Media, Hydroponics*