PENGGUNAAN BERBAGAI WARNA NAUNGAN PADA SISTEM AJB TEKNIK UNTUK TANAMAN SELADA (*Lactuca sativa* L.)

Use of various colors of shade in the ajb system techniques for cultivate cultivation (*Lactuca Sativa* L.)

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ABSTRAK

Tujuan dari penelitian ini mengetahui penerapan berbagai warna naungan terhadap kebutuhan air selada dan mengetahui respon tanaman selada, menggunakan teknik AJB dengan media tanam berupa pasir sungai. Penelitian menggunakan metode eksperimental, parameter penelitian yaitu porositas dan permeabilitas media tanam, intensitas cahaya, suhu dan kelembapan, kebutuhan dan konsumsi air tanaman, dan respons tanaman berupa tinggi tanaman, jumlah daun, panjang akar, berat basah tanaman. Data yang diperoleh dianalisis dengan menggunakan persamaan dan menggunakan Microsoft excel disajikan dalam bentuk tabel dan grafik. Penelitian dilakukan menggunakan warna naungan merah (W1), hijau (W2), biru (W3), bening (W4) dan tanpa naungan (W5). Hasil pengamatan nilai permeabilitas media tanam sebesar 28,39 cm/jam termasuk kelas agak cepat, nilai porositas media tanam sebesar 69,81% termasuk kelas berpori. Kebutuhan air pada tanaman selada membutuhkan air yang lebih banyak pada fase tengah dibandingkan fase akhir sebelum panen. Nilai intensitas cahaya pada naungan adalah W1= 6474 lux, W2=6910 lux, W3=7495 lux, W4=7015 lux dan W5=7363 lux. Perlakuan W1 (Naungan Merah) memiliki nilai rata-rata tertinggi dari pertumbuhan tanaman yang diamati seperti tinggi tanaman yaitu 14,92 cm, jumlah daun 7 helai dan berat brangkas total tanaman 25 g dan dikuti dengan perlakuan warna hijau, biru, bening dan tanpa naungan.

Kata kunci: intensitas cahaya, kebutuhan air tanaman, respon tanaman, warna naungan

ABSTRACT

The purpose of this study was to find out the application of various shading colours to lettuce water needs and to find out the response of lettuce plants, using the AJB technique with a planting medium in the form of river sand. The study used an experimental method, the research parameters were porosity and permeability of the growing medium, light intensity, temperature and humidity, plant water requirements and consumption, and plant response in the form of plant height, number of leaves, root length, plant wet weight. The data obtained were analyzed using equations and using Microsoft excel presented in the form of tables and graphs. The study was conducted using red (W1), green (W2), blue (W3), clear (W4) and no shade (W5). The results of observations of the permeability value of the planting media were 28.39 cm/hour, including the rather fast class, the porosity value of the planting media was 69.81%, including the porous class. Water requirements for lettuce plants require more water in the middle phase than the final phase before harvest. The

light intensity values in the shade are W1= 6474 lux, W2=6910 lux, W3=7495 lux, W4=7015 lux and W5=7363 lux. W1 (Red Shade) had the highest average value of observed plant growth such as plant height which was 14.92 cm, number of leaves 7 leaves and total plant weight of 25 g and was followed by with (W2) green, (W3) blue, (W4) clear and (W5) no shade..

Keywords: *light intensity, plant respons, plant water requirement, shade colour*