

**WATER CONSUMPTION AND GROWTH OF SPRING ONION
(*ALLIUM FISTULUSOM L.*) UNDER DIFFERENT NUTRIENT
SOLUTION DEPTHS IN KRATKY HYDROPONICS
UNDER SHADED CONDITIONS**

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ABSTRACT

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The study was conducted at Davao del Sur State College (DSSC), Brgy. Matti, Digos City, Davao del Sur, to investigate the effect of varying depths of nutrient solution on the water consumption and growth of spring onion. The experiment followed a Completely Randomized Design (CRD) with three treatments and three replications. The treatments were T1 (15 cm depth of nutrient solution), T2 (10 cm depth of nutrient solution), T3 (5 cm depth of nutrient solution). The effect of the depths of nutrient solution was determined with regards to the water consumption, plant height, stem diameter, number of leaf, root length, number of shoots per plant and the temperature of the nutrient solution. The gathered data was statistically evaluated using analysis of variance (ANOVA) at a significance level of 1% to 5%.

Based on the results of the study, the nutrient solution depths showed no significant effect on the water consumption and growth response of spring onion (*Allium fistulosum* L.) and also to the nutrient solution temperature.

Keywords: *growth response, temperature, water consumption, spring onion, nutrient solution depths*