

# **PENGARUH *TOTAL DISSOLVED SOLID* TERHADAP PERTUMBUHAN DAN HASIL BAWANG DAUN**

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## **Intisari**

Bawang daun adalah komoditas sayuran yang potensial dibudidayakan dengan metode hidroponik sehingga dapat dibudidayakan di area yang kecil dan tanpa tanah. Studi ini bertujuan untuk mengetahui pengaruh ragam TDS terhadap pertumbuhan dan hasil bawang daun. Penelitian dilaksanakan dari September hingga Desember 2018 di *greenhouse* dan laboratorium agronomi Program Studi Agroteknologi, Fakultas Agroindustri, Universitas Mercu Buana Yogyakarta. Penelitian ini adalah percobaan faktor tunggal yang disusun dalam rancangan acak kelompok lengkap dengan tiga taraf perlakuan. Level TDS yang digunakan adalah 1000 ppm, 1250 ppm, dan 1500 ppm yang semuanya diulang sebanyak tiga kali. Data yang diamati meliputi tinggi tanaman, jumlah daun, jumlah anakan, bobot basah, bobot kering, dan bobot ekonomis tanaman. Data dianalisis menggunakan ANOVA dilanjutkan uji *Duncan* ( $\alpha$ : 5%) apabila terdapat beda nyata. Hasil menunjukkan bahwa perbedaan TDS mempengaruhi hasil, tetapi tidak mempengaruhi pertumbuhan tanaman bawang daun. Hasil tertinggi diperoleh oleh konsentrasi nutrisi AB *mix* dengan TDS 1250 ppm.

Kata kunci: bawang daun, hidroponik, TDS.

**THE EFFECT OF TOTAL DISSOLVED SOLID ON GROWTH AND YIELD  
OF LEEK**

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***Abstract***

*Leek is a vegetable commodity which is potential cultivated with hydroponic method, thus it can be farmed in any small confined and soilless area. The purpose of the study was to know the effect of TDS on the growth and yield of leek. The study was carried out from September to December 2018 inside the greenhouse and the agronomy laboratory, Department of Agrotechnology, Faculty of Agroindustry, Mercu Buana University of Yogyakarta. Furthermore, the research was a single-factor experiment arranged in randomized completely block design with three treatment levels. TDS levels were either composed of 1000 ppm, 1250 ppm, and 1500 ppm, which replicated three times. The observed parameters were plant height, number of leaf and off-shoot, plant fresh weight, plant-economical weight as well as plant dry weight. Analysis of Variance was then employed to analyze the data, if significant different followed by Duncan's Multiple Range Test ( $\alpha$ : 5%). The results showed that TDS influenced the yield, but not growth of leek. The highest Yield obtained from nutrient solution AB mix with TDS of 1250 ppm.*

*Keyword: leek, hydroponic, TDS levels.*