ICANAS

INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL AND APPLIED SCIENCES
ICANAS 2016
Antalya, TURKEY
April 21-23, 2016

BOOK OF ABSTRACTS

AĞRI
İBRAHİM ÇEÇEN
ÜNİVERSİTESİ
2007

The Relationship Between Verticillium dahliae and Mineral Nutrients in Strawberry

Tuba GENÇ KESİMCİ[1], Erkol DEMİRCİ[2], Uğur ŞİMŞEK[3], Faruk TOHUMCU[3], Erhan ERDEL[3]

[1]Iğdır University, Agriculture Faculty, Plant Protection Department, 76000, Iğdır, Turkey
[2]Karadeniz Technical University, Maçka Vocational School, 61750, Trabzon, Turkey
[3]Iğdır University, Agriculture Faculty, Department of Soil Science and Plant Nutrition Department, 76000, Iğdır, Turkey

tuba.genc@igdir.edu.tr

ABSTRACT

Verticillium dahliae Kleb., spreading a vast geographical area and having a large number of hosts, is one of the most important fungal diseases in strawberry. *V. dahliae* causes wilt disease on strawberry plants. The pathogen reduces root length, wet and dry weight, and also impairs nutrient or water translocation. In this study, which is conducted with the purpose of presenting the relationship between *V. dahliae* and nutrients, pathogenicity trial results of 19 isolates obtained from strawberry plants were evaluated. According to these results, nutrient contents (B, Ca, Cu, Fe, K, Mg, Mn, Na and Zn) of plants with different percentages of dry weight (1,57 – 4,05 g) and disease severity index (27,5 – %85 %) were determined. This study results indicate that *V. dahliae* isolates affect nutrient ratio in strawberry plants when compared to the control.

Keywords: *Verticillium dahliae,* Mineral Nutrition, Strawberry