Effect of Vegetative and Seedling Fig Rootstocks on Nutrient Uptake of Scion cv. Sabz under Drought Stress Conditions

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In order to evaluate the effect of rootstock on nutrient (N, P, K, Ca, Fe and Zn) uptake under drought stress conditions, a commercial cultivar (Sabz) was budded onto five vegetative (Siah, Tousorkh, Shah Anjir, Dehdez, Matti) and three hybrids seedling (C1, C7, C8) rootstocks in greenhouse conditions, 2015. Results showed that type of rootstock had significant effect on macro- and micro-nutrients concentration in the scion leaves under field capacity and drought stress conditions. Drought stress increased the Ca amount of scion leaves on all vegetative and seedling rootstocks. Among the vegetative rootstocks, Matti had better efficiency in uptake and transfer of nutrients to scion whereas, C8 followed by C1 seedling rootstock were more efficient than C7. Generally, seedling rootstocks with compared to vegetative rootstocks had better potential in nutrient absorption and transfer into scion under water stress conditions.

Key Words: Fig, Nutrients, Scion, Rootstock, Water stress.

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