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Investigation of Reducing the Amount of Fertilizer a Limited Nutrient Supply Control into Substrate Cul Double Trough Bed of Tomatoes

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Limited nutrient supply control of tomato grown in substrate culture bed was investigated. Two experiments were conducted to determine reduced amount of nutrient supply. Experiment 1. Treatment with 5 N·plant⁻¹·week⁻¹ was considered in the cultivation and managemen supply control. As a result, the yield till 4th truss was not significant under an EC-based control method. However on the 5th to 6th trus decreased. At the late growth stage of 6th truss pinching of tomato, 50 me NO₃-N·plant⁻¹·week⁻¹ should be increased. Experiment 2. 'amount of NO₃-N applied at the 6th truss pinching tomato growth so In limited nutrient supply control, the blooming periods of the 2nd, a clusters were treated with increasing amounts of 50, 70, 90 me NO respectively. Compared with that under an EC-based control, these inorganic component rate by 33% (NO₃-N), 56% (NH₄-N), 53% 22% (Ca) and 76% Mg, respectively. These results show that it is p nutrient control on tomatoes grown by substrate culture using a doul in the reduction of the inorganic component, particularly NO₃-N.

Key Words: EC-based control method, nutrient uptake character

[PDF (600K)] [References]

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