Response of Strawberry (Fragaria ananassa Duch.) To Spraying of Nutrient Solution (Tecamin flower) and growth stimulant (Hyperatonic) under unwarmed plastic house Conditions

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Abstract

The experiment was conducted in the plastic house of Horticulture and landscaping Department / College of Agriculture / University of Diyala, winter agriculture season from 23/11/2014 to 2/5/2015 to study the effect of spraying nutrient solution (Tecamin Flower) at (0, 1000, 2000, 3000 mg.l⁻¹) and growth stimulant (Hyperatonic) at (0, 500, 1000, 1500 mg.l⁻¹) on growth, yield and the quality strawberry (festival cultivar). The experiment was designed according to the Randomized Completely Block Design (RCBD) with three replication. Results showed significant differences among treatments. Treatments of spraying Nutritional Tecamin Flower at 3000 mg.l⁻¹ was superior in leaf area, total soluble solids, fruit’s number, fruit’s size, fruit’s weight, fruit’s diameter, yield per plant and yield per unit area (178.90 cm², 10.63%, 13.67 fruit.plant⁻¹, 14.63 cm³, 12.74 g, 3.62 cm, 174.10 g and 5.80 T.ha⁻¹) Respectively. Treatments of spraying Nutritional Tecamin Flower at 2000 mg.l⁻¹ had significant differences vitamin C (69.22 mg.100g wet weight⁻¹) and leaf’s Chlorophyll content (49.63 spad⁻¹), Treatment of spraying Hyperatonic growth regulator at 1500 mg.l⁻¹ was superior in fruit length average (4.82 cm) in compared to with control treatment which gave minimum average of total traits studied.

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