

عنوان مقاله:

Study of foliar application of three bio & Organic fertilizers and Nano chelated potassium on the yield and some quality attributes of two strawberry cultivars under greenhouse conditions

محل انتشار:

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خلاصه مقاله:

The use of appropriate biological and organic fertilizers has been a prominent technique in the yield promotion and quality improvement of horticultural crops. In Present study, the effects of three commercial fertilizers; Stimplex (biofertilizer), Essential plus (organic fertilizer), Fertigofol (Complete fertilizer) as well Nano-chelate potassium on the quality and yield of two commercial strawberry cultivars (Albione and Gavietta) were evaluated. Traits including number of leaves and flower buds, petiole length, fruit firmness and yield of each plant, chlorophyll and anthocyanin content, antioxidant activity and Total soluble carbohydrate were measured. The longest petioles (۱۵.۲ cm) and the highest number of leaves (۱۱.۶) per plant were related to Gavita cultivar under stimplex biofertilizer treatment, while the shortest petiole (۱۱.۱ cm) was also affected by the same fertilizer(stimplex) in Albion cultivar. The highest and lowest total soluble carbohydrate content was obtained under potassium nano-chelate and stimplex treatments in both cultivars, respectively. Fruit firmness in Albion cultivar under all tested treatments was significantly higher than Gavita, but the highest fruit firmness was obtained with stimplex biofertilizer. The results revealed that although there were considerable variations among measured parameters as well cultivars in response to tested treatments, but the suitable treatments were Stimplex and fertifogol and then nano-chelate potassium. In short, "Gavietta" attained more score in most of measured attributes higher than "Albione. Considering the traits responses to the fertilizers, Stimplex and Fertifogol fertilizers showed more positive effects on the quality and quantity of strawberry fruits and .hence,"Gavietta" was the cultivar of choice

کلمات کلیدی:

Biofertilizer, Cultivar, Fruit quality, Strawberry, Yield
زیستی، کیفیت میوه، عملکرد، کود، توت فرنگی، رقم، عملکرد، کود

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