

Studies on nutrient uptake by plant as affected by soil conditioners and water stress under green-house conditions

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Field experiments were conducted using two green-houses at El-Bostan Experimental Station on a sand soil (89 % sand; 2 % clay) There were 2 experiments one for tomato and one for cucumber. Three sources of conditioners were tested namely: polyacrilic acid (PA), composite conditioner (a mixture of polyacrilic acid and bentonite with a ratio of 1 : 5 by volume), (CC) and chicken manure (CH). The application rates were as follows : Soil Application rate (g/m²)conditioners Low edium HighPolyacrilic acid - 00 - 200 300Composite - 500 - 1000 1500Chicken manure 2000 - 3000 6000.