



ORIGINAL ARTICLE

EFFECT OF HUMIC ACID AND SULFUR ON THE BIOCHEMICAL TRAITS OF DATE PALM (*PHOENIX DACTYLIFERA* L.) AL-SAYER CULTIVAR GROWN IN SALINE SOIL

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Abstract: The study was conducted during the year 2020 in Basra province, Al-Hartha district in a private orchard with soil affected by salinity, in order to study the effect of treating with humic acid and sulfur on the biochemical traits of date palm trees (*Phoenix dactylifera* L.) Al-Sayer cultivar. Humic acid was used at three levels (5, 10, 15 mL.L⁻¹). Sulfur was used in the form of agricultural yellow sulfur with three levels of addition (200, 250, 300 g/palm trees), in addition to the control treatment (without addition), where the addition was conducted in the middle of March. The experiment was conducted in the field according to the Randomized Complete Block Design (RCBD) as a simple experiment. The data were collected and analyzed statistically. The mean of the treatments were compared with the Least Significant Difference Test (LSD) at a probability level of 0.05. The results showed that the treatments (T4, T7, T3, T6) gave the highest average of leaf area, fresh weight, total yield, and the leaves content of nitrogen, phosphorous, potassium, chlorophyll, carbohydrates, sugars and starch, while the control treatment gave the lowest average for the above-mentioned traits.

Key words: Date palm, Salinity, Sulfur, Humic acid.

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