



Study of salinity different levels effects on sodium and potassium amounts of rosemary medicinal plant

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ABSTRACT

Drought is one of the environmental stresses that has destructive and harmful effects on most stages of plant growth, organ structure and activity, and considering the increasing trend of developing saline lands and the lack of suitable arable lands for agriculture, more knowledge of the effects of priming in the conditions of salinity stress is needed. It is very important. For this purpose, a factorial experiment was conducted in the form of a completely randomized block design at the Dana Medicinal Plants Research Center in Kohgiluyeh and Boyer Ahmad provinces. The results showed that with the increase in salinity, the amount of sodium increased and the lowest amount of sodium was related to the control treatment (28.74 mg/fresh weight) and the highest amount of sodium was related to the treatment with salinity of 8 dS/m (38.39). Also, with increasing salinity, the amount of potassium decreased, and the lowest amount of potassium is related to the salinity treatment of 8 dS/m (3.82 mg/fresh weight) and the highest amount of potassium is related to the control treatment (4.55 mg/fresh weight). According to the above information, it can be said that by increasing the osmotic pressure of the soil solution, the sodium element disturbs the balance of the ions needed by the plant by increasing the osmotic pressure of the soil solution.

Keywords: Essential oil, Fennel, Potassium, Salinity stress, Sodium.
