

عنوان مقاله:

Effect of spermidine spray on some morphological characteristics of grapevine (*Vitis vinifera* L. var. siah sardasht) under salt stress

محل انتشار:

بیستمین کنگره ملی و هشتمین کنگره بین‌المللی زیست‌شناسی ایران (سال: 1397)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

To study the effects of salinity on some morphological of grapevine (*Vitis vinifera* L. var. siah sardasht) and the effect of foliar application with spermidine in reduce salinity stress, Grapevine was subjected to different salt concentrations (0, 20, 40 and 80 mM) and foliar application of spermidine (0, 0.25, 0.5 and 1 mM) in hydroponic conditions. The experiments were conducted using a factorial based on a complete randomized design with four replications. The results indicated that with increasing the salinity levels in the nutrient solution, leaf area, numbers of leaves, root length and height of shoot were reduced. However, without spermidine application under salinity (80 mM), these reductions were 45.36 and 35.46 percent respectively with spermidine spray at the rate of 1 mM under NaCl (80 mM) these reductions were 38.25 and 31.48 percent respectively. Results showed that application of spermidine (especially in 0, 5 and 1 mM) can be effective in improving the negative effects of salinity in this cultivar.

کلمات کلیدی:

Grapevine, Shoot height, Leaf number, Spermidine, Salinity

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