

عنوان مقاله:

تأثیر محلول پاشی متیل جاسمونات، سالیسیلیک اسید، روی و بور بر ویژگی های کمی و کیفی گل محمدی (Rosa damascena Mill)

محل انتشار:

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نویسندگان:

محدثه طاهری - *Departments of Horticulture, College of Agriculture, University of Hormozgan*

سمیه رستگار - *Departments of Horticulture, College of Agriculture, University of Hormozgan*

اکبر کرمی - *Departments of Horticulture, College of Agriculture, Shiraz University*

خلاصه مقاله:

Abstract In order to investigate the effect of methyl jasmonate and salicylic acid hormones and zinc and boron elements on the quantitative and qualitative characteristics of Rosa damascena Mill, an experiment was conducted as a randomized complete block design with 11 treatments in 4 replications in Jahrom city of Fars province. In this experiment, different concentrations of methyl jasmonate and salicylic acid (0.5, 1 and 2 mM) and different concentrations of zinc and boron (1 and 2 per thousand) one month before flowering in two stages (ten days apart) Sprayed. The control plants were sprayed with distilled water. At the time of flower harvest, different morphological and physiological traits of the plants were evaluated. Based on the obtained results, methyl jasmonate (0.5 and 1 mM), zinc and boron increased the plant height by one per thousand. Methyl jasmonate and zinc treatments at both levels and 1 mM salicylic acid increased the fresh weight of the petals. Based on the obtained results, the treatment of salicylic acid (1 and 2 mM), methyl jasmonate (0.5 and 1 mM) and zinc by one per thousand increased the solute content of the petals. The highest chlorophyll was observed in boron treatment 1 per thousand. Also, boron treatment (1 and 2 per thousand), zinc 2 per thousand and 1 mM methyl jasmonate increased leaf chlorophyll. Petal carotenoids were also affected by different treatments of zinc, boron and the lowest concentrations of salicylic acid (0.5 mM) and methyl jasmonate (0.5 mM). Increasing the concentration of zinc and salicylic acid significantly reduced the amount of phenol in the flower. In general, methyl jasmonate treatment was superior to other treatments due to its greater effect on most of the studied traits. Therefore, the use of this treatment in rose gardens is recommended.

کلمات کلیدی:

,Keywords: Rosa damascena Mill, Methyl jasmonate, Zinc, Salicylic acid, Boron
کلمات کلیدی: گل محمدی، متیل جاسمونات، روی، سالیسیلیک اسید، بور

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