Title The effects of foliar fertilization with Fe-EDTA on stem diameter, fresh and dry weight of carnations (*Dianthus caryophyllus* L.) grown from stored and un-stored cuttings

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Citation Abstracts, 10th International Controlled & Modified Atmosphere Research Conference, 4-7 April 2009, Antalya, Turkey. 80 pages.

Keyword Fe-EDTA; carnation; fertilizer

Abstract

The spray carnation cuttings, obtained from stored at 4°C during 55 days in cold storage and un-stored cuttings, were rooted and seedlings were growth by transferring to greenhouse and the effects of different doses of foliar Fe-EDTA application (50, 100, 200 and 300 mg kg-1) on the stem diameter, fresh and dry weight were investigated in this study.

Over the growing period (November, February and May), stem diameter was measured totally 3 times at different months during growing period. In these measurements, stem diameter of carnations attained from un-stored carnation cuttings were found to be higher then stored one. The effect of Fe-EDTA on stem diameter in May was found statistically significant. The effect of Fe-EDTA application doses on fresh weight of carnation was found statistically significant while carnation dry weight was not found statistically significant.