

Title The effects of Fe-EDTA application on the fresh and dry weight of stem and flowers and the rate of flowering of carnation (*Dianthus caryophyllus* L)

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Abstract

The spray carnation seedlings obtained from the cuttings stored at 4°C during 55 days at cool storage and un-stored were transferred to the greenhouse environment and the effects of different doses of Fe-EDTA (50, 100, 200, 300 mg L⁻¹) applied via foliar application on the fresh and dry weight of leaf, stem and flowers of plants and the number of flowers per plants were investigated.

At the end of the growing season, the effects of storing conditions on the leaf dry weight of the plant and of the Fe-EDTA application on the stem fresh weight and number of flowers per plant was found statistically significant. There were no clear effects observed from Fe-EDTA application on the fresh and dry weight of flowers.