



RESEARCH ARTICLE :

Influence of post-harvest chemical treatments on shelf-life of carnation (*Dianthus caryophyllus* L.)

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SUMMARY : A Lab experiment was conducted at Vanavarayar Institute of Agriculture, Pollachi, Tamil Nadu with an objective of studying the influence of post-harvest chemical treatments on shelf life of carnation. The experiment was carried out during 2015 - 2016 in a Completely Randomized Design replicated thrice. The experiment consisted of ten treatments and two varieties of carnation flowers (Red and White). Three different chemicals like boric acid, sucrose and calcium chloride with three different concentration mixtures of 0.1%, 0.2%, 0.3%, 1%, 2%, 3% and 4% then control using distilled water were investigated in this study. The study revealed that there were significant differences in vase life of carnation varieties due to application of the different chemical mixtures. The Red colour variety combination with the treatment T₃ [Boric acid (2%) + Sucrose (3%) + Calcium chloride (0.3 %)] were recorded higher mean values for all the parameters like weight of the flower (14.89g), diameter of the flower (4.9cm), water uptake of the flower (31ml) and vase life of the flower (9 days) which was followed by the combination White colour variety + treatment T₅ [Boric acid (3%) + Sucrose (2%) + Calcium chloride (0.2 %)] with the value of weight of the flower (14.1g), diameter of the flower (4.9cm), water uptake of the flower (29ml) and vase life of the flower (8.5days).

KEY WORDS :

Post harvest chemicals, Variety, Parameters

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