

Title Effects of nutrient solution management and methods of storage and distribution on flowering and quality of cut iris, tulip and lily

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Abstract

Flowering was slightly accelerated when iris was grown with 10.7:3.9 meq/L N:K and flowering percentage and vase life were increased when it was grown at a higher nitrogen level (17.9:3.9 meq/L N:K). CO₂ concentration increased as the postharvest storage period was prolonged. Flowering of tulip was promoted by 14.3:3.9 meq/L N:K and internode diameter was significantly increased. Flowering of tulip, cultured with 10.7:3.9 meq/L N:K, 12.1:5.1 meq/L N:K and 14.3:3.9 meq/L N:K treatments, was somewhat delayed by postharvest sealing treatment, and quality was also maintained highly. Growth and flowering of lily was not significantly different between treatments. Vase life of the flowers 1-3 was increased (less than 1 day) by the highest nitrogen treatment, 17.9:3.9 meq/L N:K. In case of respiration rate in lily, cultured with 10.7:3.9 meq/L N:K, postharvest lily stored at 3°C was lower than 5°C.