

Title Pre-harvest 1-MCP applications in stark spur golden apple variety
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Abstract

In this study, the effects of 1-MCP (a chemical which included methylcyclopropene, dextrose, cyclodextrin A. I. and amino acid salt) treatment were determined on fruit drop at pre-harvest and fruit quality during storage period of Stark Spur Golden apple variety. The chemical was applied as three doses (0-150-300 a.i.g /ha). The 1-MCP were applied at two different times on apple trees as two groups. The application to first group apple trees was made seven days before optimum harvest time and harvested on optimum harvest time. The application to second group apple trees was made at optimum harvest time and harvested at seven days after optimum harvest time. Fruit were stored at 0°C (air humidity, 85-90%) in polyurethane sandwich panel cold air store. Physical and chemical analysis at 60 and 120 days from harvest were done to stored fruits. Consequently; fruit flesh firmness, soluble solids and colors of fruit skin were measured and the chemical application which was made as 300 a.i.g/ha dose in optimum harvest time have been suggested as the most useful application.