

### عنوان مقاله:

The Effect of Chemical Thinning on Seasonal Changes of Mineral Nutrient Concentrations in Leaves and Fruits of 'Soltani' Apple Trees

## محل انتشار:

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ABSTRACT- The purpose of this study was to elucidate the effects of chemical thinning on seasonal variations of leaf and fruit mineral compositions of 'Soltani' apple trees. Treatments, including unthinned control, naphthalene acetic acid (NAA) at Δ and 1 omg L-1, naphthaeneacetamide (NAD) at ۲Δ and Δ omg L-1, benzyladenine (BA) at Δ o and 1 o mg L-1 and carbaryl at Δoo and 1oo mg L-1 were applied when fruit diameters were about Λ to1o mm. The results showed that leaf nitrogen (N), phosphorus (P) and potassium (K) concentrations decreased, whereas calcium (Ca) and magnesium (Mg) increased during the season. Fruit mineral concentration changed with the age of the fruits. All nutrients decreased with fruit maturation. Most chemical thinners affected leaf concentrations of N and K but not P, Ca and Mg. Chemical thinning increased the fruits' P, K and Mg concentrations. It is concluded that fruit chemical thinning may affect the accumulation of some nutrients, especially P and K in apple fruits and could improve fruit quality as

# كلمات كليدى:

Keywords: Apple, Chemical thinning, Mineral nutrients

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