

Fruit characteristics and vegetative growth of seedless barberry as affected by gibberellic acid

A. Balandari ¹ and E. Tafazoli ²

1. Mashad Center of Iranian Research Organization for Science and Technology, Mashad.

2. Dept. of Horticulture, College of Agriculture, Shiraz University, Shiraz.

Seedless barberry as a unique product of Iran is unknown from stand point of fruit production in all over the world. Nowadays, seedless barberry is used in various food products. Different species of barberry are considered as ornamental shrub and extracts of their organs is used in pharmacy.

In a two years study in two locations, effects of GA³ spray on berry weight, vegetative growth and some fruit chemical characteristics were studied.

The results showed that application of 200 ppm GA³ at full bloom had greatest effect on internode length. The 100 berries weight increasing from 15.5g to 21.7g indicated 40% weight increment.

However, due to its diverse effect (weakening young branches and producing smaller leaves), it was recommended, not to increase concentration above 100 ppm which caused 32% increase in berry weight. None of the GA³ concentrations had significant effects on fruit juice quality.