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The Effects Of Aminoethoxyvinylglycine (AVG) And Gibberellic Acid (GA3) On Fruit Quality Of '0900 Ziraat' Cv.' Sweet Cherry

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ABSTRACT

'0900 Ziraat' sweet cherry cultivar is a late maturing variety mostly produced in Isparta region and this region is an important sweet cherry production area in Turkey. ReTain (AVG) is a plant growth regulator used for prevention of pre-harvest fruit drop and increasing fruit firmness. Gibberellins play an important role in fruit set and development. Due to their role in fruit development, gibberellins are widely used to improve fruit size. The aim of this research was to determine the effects of pre-harvest AVG, GA3 and AVG+GA3 applications on the fruit quality of '0900 Ziraat' sweet cherry cultivar. For this purpose, treatments of AVG (50 ppm), GA3 (20 ppm) and AVG + GA3 were applied at straw-yellow stage (about 30-35 days prior to the harvest). Fruit width (mm), fruit length (mm), fruit weight (g), fruit firmness (N), seed weight, peduncle length (mm), peduncle thickness (mm), peduncle weight (g), titratable acidity (%), soluble solid contents (%), pH (%), fruit colour (L*, a*, b*,C*, h*) and respiration rate (µL/kg.h) were determined at harvest time.

Key words: AVG (aminoethoxyvinylglycine), GA3 (gibberellic acid), Fruit quality, 0900 Ziraat cv. Sweet cherry