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AMINOETHOXYVINYLGLYCINE (AVG) DELAYS MATURATION AND IMPROVES FRUIT SIZE AND FIRMNESS OF CV. '0900 ZIRAAT' SWEET CHERRY

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Summary

This study was conducted to delay fruit ripening and enhance fruit quality (size and firmness) of cv. '0900 Ziraat' sweet cherry in Turkey. For this purpose, ReTain containing 15 % aminoethoxyvinylglycine (AVG), was applied at various concentrations (0, 50, 100 or 150 mg L⁻¹) onto fruits and leaves around the fruits of 10-years old cv. '0900 Ziraat' sweet cherry on 'Gisela 5' dwarf rootstock at the straw-yellow stage (about 30–35 days prior to the harvest). Fruit maturity was delayed about 4–6 days in AVG-applied (50 and 100 mg L⁻¹) fruits. Application of AVG increased the fruit size and fruit mass of cv '0900 Ziraat' sweet cherry. All AVG concentrations led to firmer fruit relative to the unsprayed control fruits. Effects of AVG concentrations on SSC were not significant. Application of AVG decreased the ethylene efflux from the cherry fruit. As a result, application of AVG at 50 or 100 mg L⁻¹ concentrations at the straw-yellow stage for '0900 Ziraat' sweet cherry variety can be recommended in situations and countries, where this compound is officially approved.

Key words. AVG – ReTain – sweet cherry – '0900 Ziraat' – fruit quality – ripening