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Effects of Girdling, Strapping, and CPPU Treatments on Fruit Quality in 'Fuyu' and 'Jiro' Persimmon

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Abstract

This study was undertaken to investigate the effects of girdling and strapping of lateral branches, combined with application of CPPU (N-(2-chloro-4-pyridyl)-N′-phenylurea) to the fruitlets, on fruit quality of two cultivars of Japanese persimmon (*Diospyros kaki* L., 'Fuyu' and 'Jiro'). Girdling in May and July and strapping in May, June and July significantly increased fruit size and weight of 'Fuyu'. Strapping in May, June and July increased fruit sugar content of 'Fuyu' and enhanced fruit quality more than girdling in 'Fuyu'. Girdling in June significantly increased fruit size and weight of 'Jiro'. Because girdling and strapping in May or June showed the best results in both cultivars, it is suggested that these treatments are suitable for persimmon during the first half of stage I of fruit development. The combination of girdling and CPPU significantly increased fruit size in 'Fuyu', and CPPU decreased fruit size in 'Jiro'. CPPU decreased fruit color and sugar content in both cultivars.

Key words

girdling, strapping, CPPU, persimmon, fruit color, fruit size, sugar content

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