Title	The combined effects of 1-methylcyclopropene and modified atmosphere packaging on fruit
	quality of Fuyu persimmon fruit during storage
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Abstract

In this research, the effects of modified atmosphere packaging (MAP), 1-methylcyclopropane (1-MCP) treatments furthermore the combination of MAP and 1-MCP on quality of Fuyu persimmon fruits during storage period were studied. Modified atmosphere packaging was based on low density polyethylene (LDPE); 1-MCP (SmartfreshTM) treatments were 625 and 1250 ppb for 24 hours at 18°C-20°C. Treated and untreated control fruits were stored at 0°C-1°C and 85-90% RH for 40, 80 and 120 days. In addition, after each storage period fruits were kept at 18°C-22°C for 3 days as shelf life. The quality parameters evaluated were; weight loss, fruit firmness, soluble solids rate, skin color, flesh color. Furthermore biochemical properties as titratable acidity, total sugar, invert sugar and tanin contents were determined.

Postharvest 1-MCP (SmartfreshTM) treatments and modified atmosphere packaging affected some quality and biochemical properties of "Fuyu" persimmon fruits. Thus the combination of 1-MCP and MAP based on LDPE was found the most effective as keeping the quality.