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Effects of Winter Night Temperature on the Floweria Quality of Cut Flowers in Spray-type Carnation (*Diu* L.) Cultivars

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Effects of winter night temperature (5, 10, 15 or 20°C) on the flowe spray-type carnation (*Dianthus caryophyllus* L.) 'Light Pink Barb Tessino' were investigated. In both cultivars, secondary lateral shock second decapitation (second pinch lateral shoots) grew more rapidly temperature, whereas the length of second pinch lateral shoots at an the lowest night temperature (5°C). In both cultivars, the number of

flowering decreased, and the yield of cut flowers increased with increased temperature. The lowest (5°C) night temperature adversely affected in increased second florets. In 'Cherry Tessino', the red color pigment marginal variegation of flowers increased up to completely red petals temperature. The chromatic component L* value showed a tendence increasing night temperature, and a* value showed a tendency to deconclusion, from the perspective of achieving a good balance betwee quality of cut flowers, suitable night temperatures in winter for cut flowers, the spray-type carnation 'Light Pink Barbara' and 'Cherry Tessino' are 15°C.

Key Words: days to flowering, flower color, lateral shoot

[PDF (854K)] [References]

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