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Effects of Low Light Intensity due to Shading during High Temperature Season on the Flower-bud Appearance of the Parthenocarpic Tomato ‘Renaissance’

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Effects of low light intensity due to shading during high and low temperature seasons on the flower-bud appearance and fruit setting of the parthenocarpic tomato ‘Renaissance’ were examined. The flower-bud development of ‘Renaissance’ was hindered by low light intensity due to 70% shading during the high temperature season, but developed normally expressed parthenocarpy. The seeded fruit rate per fruit of ‘Renaissance’ were increased by low light intensity due to

the high temperature season. Furthermore, low light intensity due to low temperature season did not influence the flower-bud development. The parthenocarpic characteristics of 'Renaissance' were very strong. We conclude that reducing the shading to the minimum is important to let the flower bud normally during high temperature season for the purpose of improvement of the parthenocarpic tomato 'Renaissance'.

Key Words: [environmental stress](#), [growth-regulating substance of development](#)

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