

## トルコギキョウ二度切り栽培における 2 回目収穫期の早進化技術

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Methods to accelerate the second harvest period  
in twice-cut *Eustoma grandiflorum* cultivation

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### 要 約

平坦地のトルコギキョウ促成栽培生産地では 8 月下旬以降に定植し、11 月下旬～12 月中旬に 1 回目を収穫した株から萌芽した芽を 6 月に収穫する二度切り栽培が行われている。この 2 回目収穫を需要が多く高単価が期待できる 5 月末までに早進化させる栽培管理を検討し、以下の結果を得た。

1. 1 回目収穫で切り花長が約 80cm 以上となる品種において、1 回目収穫位置を地際より 10cm 程度の高位収穫することで、切り下株からの抽だいが早進化した。
2. 1 回目収穫後に 2～5 週間低温に遭遇させると、加温を継続した場合と比べ中晩生品種では 2 回目の収穫日が 6～8 日遅くなった。さらに、1 回目収穫後に加温を継続する場合は、その温度管理を昼温 30℃、夜温は日没後 3 時間を 20℃、その後明朝まで 10℃を下回らないように管理する EOD-Heating を発蕾期まで行うことで、切り花品質を低下させることなく収穫時期を早進化することができた。
3. 2. の温度管理に加えて、ハウス内が 400ppm を下回らないように炭酸ガスを施用した場合、2 回目収穫期は早進化しなかったが、切り花長や切り花重が大きくなった。
4. 遠赤色 LED(以下、FR 光)を日没後 3 時間照射する EOD-Lighting(以下、EOD-FR)では、2 回目収穫期は早進化せず、切り花長が長く、発蕾以降のハウス内温度が 30℃を超える 6 月での収穫では花径が小さくなった。

キーワード：トルコギキョウ、二度切り、早進化、EOD-Heating

### Summary

In *Eustoma grandiflorum* production areas of forcing culture in flat area, *Eustoma grandiflorum* is planted in late August and harvested in June from sprouts that sprouted from plants that were harvested the first time in late November to mid-December. The following results were obtained from a study of cultivation management to accelerate the second harvest to the end of May, when demand is high and high unit prices can be expected.

1. The first harvest of a variety with a cut flower length of 80 cm or more at the first harvest was performed by harvesting at a position 10 cm above the ground level, which resulted in an acceleration of the sprout of flowers from the lower cut stump.
2. The second harvest was 6 to 8 days later for the mid-to late-season varieties when they were exposed to 2 to 5 weeks of cold temperatures after the first harvest than when they were kept heated. Until the bud stage, when temperatures were kept at 30℃ during the day and 20℃ at night for 3 hours after sunset, and then kept 10℃, the harvest date could be accelerated without degrading cut flower quality.
3. In addition to the temperature control described in 2, when carbon dioxide gas was applied below 400 ppm in the greenhouse, the second harvest did not grow earlier, but the length and weight of cut flowers increased.
4. In EOD-Lighting(EOD-FR), irradiated with far-red LED(FR) light for 3 hour after sunset, the second harvest did not grow earlier, the cut flower length was longer, and the flower diameter was smaller when harvested in June when the temperature in the greenhouse exceeded 30℃ after bud development.

Key words: *Eustoma grandiflorum*, twice-cut, acceleration, EOD-Heating