

Piyawadee Sawatnisakorn 2007: Effects of Paclobutrazol on Display Life of Five Colored-foilage Plants for Indoor Uses. Master of Science (Agriculture), Major Field: Horticulture, Department of Horticulture. Thesis Advisor: Assistant Professor Nath Pichakum, Ph.D. 122 pages.

Paclobutrazol application for increasing the display life of 5 colored-foilage sun plants for indoor uses was studied. The selected plants are; *Codiaeum variegatum* (L.) Bl., *Duranta erecta* L., *Graptophyllum pictum* (L.) Griff., *Iresine herbstii* Hook.f. and *Solenostemon scutellarioides* (L.). Paclobutrazol solution of 0, 25, 50, 75 and 100 mg/l was drenched once to each pot. These plants were moved to a room with 25 ± 2 °C temperature and 65 ± 2 % relative humidity, an environment similar to that in exhibition hall. Artificial light from fluorescent lamps with $0.5-2.0 \mu\text{mol m}^{-2} \text{s}^{-1}$ was applied for 8 hours daily. The results showed that 50 mg/l paclobutrazol application enhanced display life of *Codiaeum variegatum* (L.) Bl. 10 days more than untreated plants. Treatments of 25 mg/l increased the display life of *Duranta erecta* L. and *Iresine herbstii* Hook.f. for 2 days comparing with control. The higher concentration at 100 mg/l increased the display life of *Graptophyllum pictum* (L.) Griff. for 4 days comparing with control. However, paclobutrazol had no effect on display life of *Solenostemon scutellarioides* (L.) for indoor use.

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