



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**The Effect of Planting Density on Yield Quality and Productive Energy
Consumption for Lighting in Gypsophila Growing**

 [Keywords](#)
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Osman KARAGÜZEL, Veli ORTAÇEŞME Akdeniz Üniversitesi Ziraat Fakültesi Peyzaj Mimarlığı Bölümü, Antalya-TÜRKİYE Abstract : This study was carried out to determine the effect of planting density on yield, quality and productive energy consumption for photoperiodic lighting in *Gypsophila paniculata* L. 'Perfecta' growing under unheated plastic greenhouse conditions for 4 cropping seasons, at the Horticultural Research Institute (Erdemli, İçel-Turkey), during 1992-1994. In the study, planting densities at 6.80 plants/m², 3.03 plants/m² and 1.70 plants/m² with 40, 60 and 80 cm triangle planting systems, and planting density at 1.67 plants/m² with 100x60 cm planting system were used. The results showed that with decreasing planting density, the number of flowered shoots and flowered shoot fresh weight per plant (shoots/plant and g/plant) increased in all cropping seasons, and the times from pruning to harvest shortened in lower planting densities in the 3rd cropping season (September'93-March'94). In contrast, with increasing planting density the length of flowered shoots, number and fresh weight of flowered shoots per square meter (shoots/m² and kg/m²) increased, and energy consumption for photoperiodic lighting per flowered shoot and per kilogram of flowered shoot fresh weight (Wh/shoot and Wh/kg) decreased considerably. Key Words : *Gypsophila paniculata* L., Planting Density, Productive Energy Consumption.

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