

Katsirin Sangmanee 2010: Effects of Spacing and Time of Harvest on Yield and Quality of Cowslip Creeper (*Telosma minor* Craib). Master of Science (Agriculture), Major Field: Horticulture, Department of Horticulture. Thesis Advisor: Miss Pariyanuj Chulaka, Ph.D. 59 pages.

The effects of plant spacing and time of harvest on yield and quality of cowslip creeper were carried out at the experimental field, Department of Horticulture, Kasetsart University Bangkok campus during August 2007 to August 2008. The experiment was done in Split plot in Randomized complete block design. The 3 spacings (0.25x2.5 0.50x2.5 or 0.75x2.5 m) were tested as main plot, and 4 harvest times (May, June, July and August) were tested as subplot. The results showed the spacing of 0.75x2.5 m gave highest inflorescences weight (3.24 g) and antioxidant activity (74.60 %). Harvesting in May gave highest the number of inflorescences per branch (9.36 inflorescences), total yield (600.15 g/m<sup>2</sup>), antioxidant activity (80.28 %) and vitamin C content (66.45 mg/100 g fresh weight). However, the planting in 0.25 x2.5 m spacing and harvesting in May gave the highest yield (801.16 g/m<sup>2</sup>) whereas, 0.75x2.5 m spacing and harvesting in May gave the highest antioxidant activity and vitamin C content (89.58 % and 70.87 mg/100 g fresh weight, respectively).

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Student's signature

Thesis Advisor's signature