

**Title** Effect of pre-shooting temperature and duration for enhancing cut flower quality of *Lilium* oriental hybrid 'Siberia' in summer season in Korea

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#### **Abstract**

Summer cut flower production of *Lilium* oriental hybrids has some problems including short stems, reduced number of flower buds, and shortened inflorescence length. The temperature and length of pre-plant holding before planting bulbs were studied in an effort to improve quality of 'Siberia' oriental hybrid lilies. 'Siberia' bulbs were held at 9, 12 or 15°C, for 9, 14, or 19 days before planting (10 June) in Gangneung (a high land, 600 m a.s.l.). When held at 12°C for 14 days before planting, the length and weight of harvested stems increased and physiological flower bud blindness was reduced by 46% as compared with controls. When 'Siberia' was held at 12°C for 17 days before planting at the other high site (Muju, 400 m a.s.l.) on 20 July, stem length and flower bud length were 90.2 and 12.5 cm, greater than the other treatments and bud blindness was reduced by 35.5% as compared with the control.