

Controlled-Environment Greenhouse



Agriculture, Fisheries
and Conservation Department

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Growing Lily Cut Flower



**From the
Editor**

Lily cut flower is very popular in the market. However, as lily grows best in cooler weather, local farmers usually cultivate it in the field from autumn to early spring but not in the hot summer. This edition features how to grow lily all year round in a controlled-environment greenhouse, which will bring in more income for farmers.



Selection of Varieties

- Species of popular color and shape or those in unique color
- Heat-tolerant species for production in the hot summer
- Choose healthy bulbs without any rotten parts, preferably with a circumference of more than 16 cm.



Growth Conditions

Temperature : The optimum temperature is 15 ~ 24

Humidity : The relative humidity is best between 80 % and 85 %

Lighting : A daily lighting of 12 ~ 14 hours is needed



Cultivation Management

Growing : Bury bulbs in loose and retentive planting medium, which should be about 1 cm thick for the part under the bulb and 8 ~10 cm thick for the upper part. Plant spacing is about 15 ~ 20 cm.



Application of Fertilizer & Irrigation : There is no need to apply fertilizer before budding, but the planting medium should be maintained at an appropriate humidity. Between budding and harvesting, drip irrigation should be used to distribute liquid nutrients rich in phosphorus and potassium to the medium for absorption by the plants.

Support : When the stems grow taller, support them with strings, nets or bamboo sticks to avoid lodging.



Harvesting : Start harvesting the whole stem after the first bud has sufficiently colored.

Note : In growing lily cut flower in greenhouse, the environment (temperature, humidity and lighting) of the greenhouse should be suitably controlled with good ventilation. The pH value of the planting medium should be maintained at 5.5 ~ 6.5 and the electrical conductivity (EC) at 0.8 ~ 1.0.



Coming Next

*Controlled-Environment
Greenhouses in Hong Kong*

For more information and visits to greenhouses, please contact :
Crops Development Section, AFCD (Tel : 2668 0295)

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<http://www.afcd.gov.hk>