

Controlled-Environment Greenhouse



Agriculture, Fisheries and
Conservation Department

Newsletter—June 2010

Multi-storey Plantation

From the Editor

The Horticulture Section of the Crop Division is experimenting with multi-storey plantation in controlled-environment greenhouses with a view to exploring the cost-effectiveness of alternative production modes. Multi-storey plantation is a clean and hygienic production mode that can save space, boost production and facilitate management work. In this issue, we will first introduce some facilities for multi-storey plantation and illustrate how flowering Chinese cabbage and potato are so grown by photos.

Multi-storey Plantation facilities

A multi-storey plantation stand, in slender and “A” shape, is formed by several structures of the same shape placed in a right distance. Each stand has three tiers of trays on each side to support planting troughs, which contain planting media irrigated by droppers. Tiers of planting troughs are not covered by one another so that crops can enjoy sufficient sunlight.



Top planting trough

Mid-level planting trough

Bottom planting trough

Multi-storey plantation stands in “A” shape



Each controlled-environment greenhouse houses several multi-storey plantation stands.

Plantation of Flowering Chinese Cabbage

There could be 5 harvests in summer, each requiring a period of around 50 days. Unaffected by adverse conditions outside, flowering Chinese cabbage grows orderly on plantation stands and is easy to manage, thus resulting in good yield.



Seedling stage



Growing abundantly



Ready for harvest



Harvesting

Plantation of Potato

Potato could be planted in winter requiring a growing period of 4 months. Under the protection of greenhouses, effective control of pests and diseases could be attained to assure yield and quality.



Ready for Planting



Growing abundantly



Ready for harvest



Harvesting

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For more information and visits to greenhouses, please contact:
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