

Controlled-Environment Greenhouse



Agriculture, Fisheries and
Conservation Department

Newsletter – June 2015

Hydroponics (III)



From the Editor

Hydroponics is a method of cultivating vegetables directly in a nutrient solution, without soil and often in a protective greenhouse. Prospering in a stable and suitable environment, the vegetable produce yields faster than those cultivated in soil in the same season. Influenced less by inclement weather and pests, hydroponic vegetables are fresh and tender in quality as well as hygienic, while steady production can be maintained. Photos below were taken from two local hydroponic farms, showing their different design and the feasibility of this cultivation technique.



Typical controlled-environment indoor hydroponics



A view of the controlled-environment greenhouse



Healthily growing seedlings



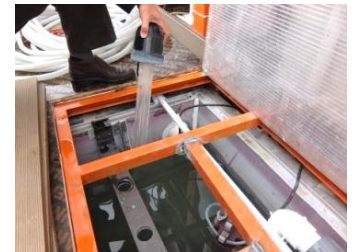
Various varieties of hydroponic baby leaves are growing well in the greenhouse



White, healthy roots have developed



Specially-made storage, cooling, delivery and filtering devices for the nutrient solution



Placing ultra-violet lamps in nutrient solution troughs to kill algae and bacteria



Indoor hydroponics utilising the seafront setting



Built on a hillside facing the sea, the greenhouse enjoys good air circulation



Surrounded with insect screens, making use of the sea breeze for circulation and cooling



Hydroponic baby leaves are growing in the seedling room



Hydroponic baby leaves are transplanted in planting troughs



Erecting planting troughs on a gentle slope



Using fans and misting equipment to cool the greenhouse in summer

AFCD Home Page:
<http://www.afcd.gov.hk>

For more information and visits to greenhouses, please contact:
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