

Controlled-Environment Greenhouse



Agriculture, Fisheries and
Conservation Department

Newsletter – December 2020



Basket Cultivation



From the Editor

Soil sickness due to continuous cropping is common in greenhouse. It may result in yield decline in crops if soil management measures are not taken to prevent soil-borne diseases or soil pests. In this issue, we are going to share our experiences of managing soil sickness, as well as reducing soil-borne diseases and pests.



Crops suitable for basket cultivation

- Crops in the family Cucurbitaceae such as bitter melon, sweet melon and cucumber can be planted during spring and summer, while crops in the family Solanaceae such as tomato, cherry tomato and sweet pepper can be planted during autumn and winter.
- Trellises can be installed to facilitate crop growth.

Gourds and fruits planted in baskets



Container and medium for basket cultivation

- Use a sieve tray made of polyethylene (PE) with an approximate size of 60 cm in length, 40 cm in width and 25 cm in height as the container. It should allow adequate volume of growing medium for root growth.
- Sandy loam with good drainage, mainly a mixture of sandy clay and compost, is used as the medium for planting.

Container and medium for planting



Soil management for basket cultivation

- Solarise the soil after planting to reduce pests and diseases.

Prevention of soil-borne diseases and pests:

Bacterial wilt

Fusarium wilt

Root-knot
nematode



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