

Screening for Potential Cultivars of Hami-melon (*Cucumis melo var. saccharinus*) Cultivated in the Facility of Spring Crop in Yilan District¹

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Abstract

In recent years, the hami-melon cultivation in Yilan has turned into facilities. However, the fruit quality of local famous cultivar 'New Century' was poor when cultivated in the facility. The trial for new cultivars which were appropriate to cultivate in facilities is in demand. Therefore, four cultivars including 'Honey Treasure', 'Aurora', 'Yellow Aroma' and 'New Century' were evaluated for cultivation trials in facility. The results showed that 'Aurora' had lower growth rate in the facility, and had higher plant survival rate, fruit harvest rate, salable rate and soluble solid content, which was performed the best among the tested cultivars. Although the fruit quality and yield of 'Honey Treasure' and 'Yellow Aroma' were also higher than those of 'New Century', the soluble solids content and taste were not as good as those of 'Aurora'. As a result, the potential to cultivate in facilities has to be further evaluated. In conclusion, the cultivar 'Aurora' had the greatest potential for production in facilities in spring cropping, therefore is suitable for facility-cultivation promotion in Yilan. However, the fruits weight of 'Aurora' produced in this trial were smaller, so the trials for increasing the fruit weight need to be further conducted.

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