

Breeding of New Watermelon F₁ Variety Penghu 5

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Abstract

Penghu 5(breeding line was named Penghu hybrid 34)was crossed from KPS17xKPS19 line 1998. After a series of selection and yield trials, conducted throughout in Penghu area, the experimental results showed that this F₁ variety had early maturing, uniform fruit shape and higher yield. The growth duration from transplanting to flowering was about 31days in spring crops and 27days in summer crops, which was 1 to 2 days earlier than local variety. Fruit weight of 2.4~2.9Kg, which is suitable for small family consumption. The average yield was 10.6% higher than control variety Chi-tou. The seed number and 100 seeds weight of this variety was 40.0% and 45.0% lower than the variety Chi-tou respectively. However, sugar content was 1 to 2 °Brix higher than the check variety, with good quality and tasting. It is recommended to growers that Penghu 5 can grow both in spring and summer crops in Penghu.

Key words: Watermelon, hybrid variety, Penghu 5.

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