

Development of Eggplant cv. 'Kaohsiung 1'

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Abstract

Current eggplant cv. 'Pintung Long' has low heat tolerance, the fruit color during warm season is not as bright as in cool season. It has no resistance to major disease and insects. 'Kaohsiung 1', tested as 'Kaohsiung yu 41', was developed from a 1988 cross of 'Kaohsiung acc. 1' × 'PI 164811' by pedigree method. 'Kaohsiung acc. 1' is selected for its vigorous growth, resistance to bacterial wilt and good fruit quality. PI 164811 has long fruit, heat tolerance and good fruit color. 'Kaohsiung 1' has been tested throughout various variety trial and regional tests and it was approved by the name in April of 1998. The commercial name of it is 'Red-Bride'. The new variety 'Kaohsiung 1' is high yielding with straight long fruit in good color and eating quality. It yields more than cv. 'Pintung Long' by an average of 15.6%. It has high percentage of good fruit and good tolerance to both warm season and bacterial wilt. The fruit length and rate of good fruit increased by 3.8cm and 2.5% respectively as compared with that of 'Pintung Long'. The reaction to bacterial wilt was rated as moderately susceptible to moderately resistant. The damage of thrips was less prominent. This new variety fruited in good purple-red color even during high temperature period, indicating its better heat tolerance. However, it fruited less than 'Pintung Long' in early cool season, with thinner and lighter fruits. It tends to bear more than one fruit per node. It is necessary to thin the fruit in time.

Key words: Eggplant, New variety, Heat tolerance, Bacterial wilt resistance

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