

The Release of New Cucumber Cultivar “Kaoshiung No. 3”

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Abstract

Cucumber ‘Kaohsiung No.3-summer-green’ is an F₁ hybrid which grows vigorously under hot weather and shows early maturity. The Peel color is emerald green and the rind is light green with white spines. When at green flesh stage it is crisp and moist. The average fruit length and width are 12 cm and 3 cm, respectively, and average fruit weight is 95g. The breeding program was initiated at autumn crop in 2005 which included germplasms collected and the parents were inbreds. The crossing was done in autumn of 2008. Line trails were conducted in spring and autumn of 2011. KSF110 (original scion code of ‘Kaohsiung No.3) was selected from 23 hybrid lines because of its early mature, excellent taste quality and heat tolerance. The regional trials were conducted in summer of 2012. The cultivar characteristic examinations (DUS test) were carried out in spring and autumn of 2013, respectively. The cultivar was denominated as ‘Kaohsiung No.3-summer-green’ while technique transfer of the cultivar was completed in 2014.

Key Words: Cucumber, Hybrid, Heat tolerance

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