

Breeding New Green Onion (*Allium fistulosum* L.) Variety - ‘Lanyang No.4’¹

Su-Szu Yang² Hung-Ying Yang³ Peng Hwang⁴

Abstract

To breed new green onion varieties with good quality, high yield and heat tolerance, Hualien District Agricultural Research and Extension Station focuses on selecting from varieties and hybrid progenies for many years. Plant variety right of line HAF10167 was approved on May 6, 2008. It was registered as ‘Lanyang No. 4’. The observation trials, preliminary and advanced yield trials, regional trials, main diseases and insects survey, planting density trial, fertilizer trials, and component analysis were conducted sequentially. The results showed the new line HAF10167 had good performance in summer crop with higher yield and longer blanched sheath. The yield of ‘Lanyang No.4’ was 26.5-39.2 ton/ha in spring and summer plantings, and 28.0-36.5 ton/ha in autumn planting. ‘Lanyang No.4’ is characterized with higher heat tolerance and yield potential than ‘Lanyang No.1’.

Key words: green onion, variety, breeding, heat tolerance.

1. Research article No.247 of Hualien District Agricultural Research and Extension Station.

2. Associate researcher, Lanyang branch station, Hualien DARES.

3. Researcher of Extension Secion, Taichung District Agricultural Research and Extension Station.

4. Director, Hualien DARES.