

Development of Peanut New Variety Penghu 3

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Abstract

Pure-line selection was adopted to develop a new peanut variety Penghu 3, it was released on Sep. 23, 1996. Genetic performance belongs to Virginia type, and its growth duration is about 165 to 170 days, which is 15 to 20 days shorter than Penghu 2. Resistance of rust, leaf spot, and rosette disease in Penghu 3 are better than Penghu 2 in the field condition. Pod yield was 1660 kg/ha, which is increased by 13.7% than Penghu 2. 100 seed weight and shelling rate were 49.9g and 66.5%, which is increased by 2.5g and 4.5% than Penghu 2, respectively. Seed dormancy phases needs for 8 weeks, which is 2 weeks less than Penghu 2. Seed components including crude fat, crude protein, oleic, and linoleic content, were 45.45%, 29.26%, 49.49%, and 32.75%, respectively. Penghu 3 is suitable for fresh and processing use. It has a lot of good characteristics, such as tolerance to drought, salt and wind that make it possible to plant at alkaline soil in Penghu areas.

Key words: peanut, variety, pure-line selection .

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