

綠肥大豆台南4號台灣地區適應性及採種試驗

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桃園區農業改良場

苗栗區農業改良場

台中區農業改良場

高雄區農業改良場

花蓮區農業改良場

台東區農業改良場

摘要：綠肥大豆新品種台南4號係由青皮豆地方種經單株選拔採純系育種育成，具有籽粒小、生長快速、鮮草量及肥分含量高、覆蓋期長之特性，適合雲嘉南地區水旱田綠肥栽培及秋作採種。為進一步評估該品種在台灣地區之適應性以供綠肥種植推廣，經89年試驗的結果，台南4號在全台9個地點一期作的表現，東部地區以宜蘭、花蓮，西部地區以雲林、嘉義的適應性最佳，生育80天每公頃的生草量25,000至46,000公斤，且田區達到95~100%的覆蓋率，其次為高雄、苗栗及台東地區的適應性良好，其生草量19,740至23,075公斤，至於桃園地區的覆蓋率不佳仍待評估。二期作水田試驗結果，台南4號的生草量及覆蓋率以雲林、嘉義、苗栗、彰化、宜蘭、花蓮、台東等7個地點表現較佳，生育80天每公頃生草量達20,000公斤及87.6%的覆蓋率，顯示該品種除了桃園地點外均適合一、二期作水旱田綠肥種植。

Adaptation and Seed Production of Soybean Cultivar Tainan 4 for Green Manure

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Abstract: New soybean cultivar Tainan No. 4 was developed by pure line selection. It has many good characteristics such as small seed, growth rapidly, high biomass and fertility, therefore, it is suitable for green manure. To evaluate the adaptation at different locations and the optimal plant density for seed production. We investigate the adaptation and seed production of Tainan No. 4 in Taiwan. The results were summarized as follows. (1) In the spring season, the biomass at Ilan and Hualien areas were higher than other eastern area, Yunlin and Chiayi area was higher than other western area. The biomass per hectare of Tainan No. 4. Were 25,000 kg to 46,000 kg at 80 days after plant. (2) In the summer season, the adaptation of seven locations including Yunlin, Chiayi, Miaoli, Changhua, Taitung, Ilan and Hualien showed well and the biomass was 20,000 kg. In the conclusion, except Taoyang location, Tainan No. 4 which planted in wet field is suitable for green manure in the spring and summer.