

Effect of different seasons and locations on seed yield and quality of soybean.

Keng-Feng Chen

Summary

The aim of this experiment were studied on seed yield, seed protein and oil content of soybean affected by the different seasons and locations.

The soybean line kaohsiung-yu No.1264, Nung-yu No.4, Hua-yu No.69-7 and Kaohsiung No.8 were used as materials. The experiment adopted randomized complete block design, four replications and six locations including Taoyuan, Tainan, Kaohsiung, Taitung, Hualien and AVRDC. The results indicated that the seed yield of spring crop was higher than that of summer crop and fall crop, while the seed protein content of spring crop and summer crop were higher than that of fall crop. The seed performance of a single variety differed considerably from different seasons and areas. For example, the seed yield of spring crop and summer crop of Kaohsiung No.8, planted in Pintung area were lower than that of fall crop, while the seed yield of the spring crop and summer crop of the same variety planted in Shanhwa area were higher yield than that of the fall crop. The seed protein content also varied from seasons and growing area. The high yield varieties always perform better regardless of growing seasons and locations.

Keywords: Soybean, Location, Season, Seed quality.