

STUDY ON GROWTH AND DEVELOPMENT OF SOME IMPORTED KOREAN SOYBEAN LINES IN THAI NGUYEN

Luu Thi Xuyen, Trieu Luu Huyen Trang, Phan Thi Van

Summary

This study focused on evaluating growth and development of some exotic soybean lines imported from South Korea in Spring and Summer-Autumn seasons in Thai Nguyen city. The experiment was conducted using Random Complete Block Design (RCBD) with 10 treatments and 3 replicates. Results showed that the soybean lines in Spring and Summer-Autumn seasons had different morphological traits, yield indicators and productivity. Yield potential of the experimental varieties ranged between 13.57 – 35.66 quintals/ha in Spring season and 19.08 – 47.86 quintals/ha in Summer-Autumn season. Actual yields in Spring season ranged between 12.90 – 21.67 quintals/ha, in which, four lines, including PI578367, PI507147, PI458227 and PI603674 had higher yields, ranging from 18.50 – 21.67 quintals/ha, compared to the control variety DT84 (16.86 quintals/ha) ($P < 0.05$). In Summer-Autumn season, the actual yields of the experimental lines ranged between 11.60 – 27.06 quintals/ha, which was higher than the yield of the control variety DT84 (15.72 quintals/ha) ($P < 0.05$). Results from this study showed that two lines, including PI578367, PI603674 had high yields in both seasons.

Keywords: Soybean, productivity, Thai Nguyen, summer-autumn season, spring season.